Club Car®

2001-2002 ILLUSTRATED PARTS LIST



DS GOLF CARS
GASOLINE/ELECTRIC

MANUAL NUMBER 102189901
EDITION CODE 0801B0602A

USING THE ILLUSTRATED PARTS LIST

⚠ WARNING

- **This manual is to be used only for identification and ordering of service parts. Be sure to read and use the maintenance and service manual before attempting any vehicle repairs.**

This manual covers all 2001 and 2002 Club Car® DS Tranquility®, DS V-Glide 36-Volt, DS PowerDrive® System 48™, DS PowerDrive Plus®, and IQ System™ vehicles.

The manual is divided into 16 sections. Sections 1 through 5 pertain to both gasoline and electric vehicles, sections 6 through 11 pertain to gasoline vehicles only, sections 12 through 15 pertain to electric vehicles only, and section 16 pertains to tools that are used on all Club Car products. Note that there are two or three flags on the outside edge of each page. The first flag contains the section number of which that page is a part. The other flag (or flags) contains either the letter G or E, signifying that the page pertains to either the gasoline or electric vehicle only, or to both the gasoline and electric vehicles.

Use the Table of Contents to find the sections and pages that contain the parts and assemblies you seek. The Table of Contents lists section numbers, and under them, the individual page titles and numbers to be found in that section. The index can be used to find specific parts and assemblies. The index is divided into numerical and alphabetical listings with the page numbers in italic text.

There is a two-page spread for each individual page title in the Table of Contents. On the left-hand page is an illustration showing the parts in their relative positions; the parts are each tagged with an item number in a balloon. The right-hand page is the parts list page, and gives the page title at the top, then the item numbers (corresponding to the numbers on the illustration), part descriptions, and quantity of parts used. Some item numbers have more than one part number because several configurations of a component are represented together on one spread.

Note that a part description may be indented. This indention corresponds to a parts assembly level indicated by the numbers 1, 2, 3, and 4 at the top left corner of the parts description area of the parts list page. A part that is indented to *level 2* is a component of the *level 1* part (assembly) that it is listed under. A *level 3* part is a component of the *level 2* part that it is listed under, and a *level 4* part is a component of the *level 3* part preceding it. In each case, the part quantity given for a level 2, 3, or 4 part *is the quantity used per next higher level assembly of which it is a component.* A part that is not indented is a *level 1* part. This means that the quantity given is the quantity used per the portion of the vehicle illustrated on that particular spread.

HOW TO ORDER PARTS

Replacement parts and accessories can be obtained from our network of authorized dealers and distributors. You can obtain the name and phone number of your closest Club Car contact by visiting our web site at www.clubcar.com and clicking on the "*Distributor Search*" link or by calling our toll-free Service Parts and Technical Assistance hotline at (800) 872-2246.

Club Car®

P. O. Box 204658
Augusta, Georgia 30917-4658 USA
Telephone 706-863-3000
Service Parts Fax 706-855-7413
www.clubcar.com

NOTE: *This illustrated parts list represents the most current information at the time of publication. Club Car, Inc. is continually working to further improve its vehicles and other products. These improvements may affect the parts used to service the vehicle. Any modification and/or significant change in specifications will be forwarded to all Club Car and Carryall distributors/dealers and will, when applicable, appear in future editions of this illustrated parts list.*

Club Car, Inc. reserves the right to change specifications and designs at any time without notice and without incurring any obligation or liability whatsoever.

This manual effective July 24, 2000.

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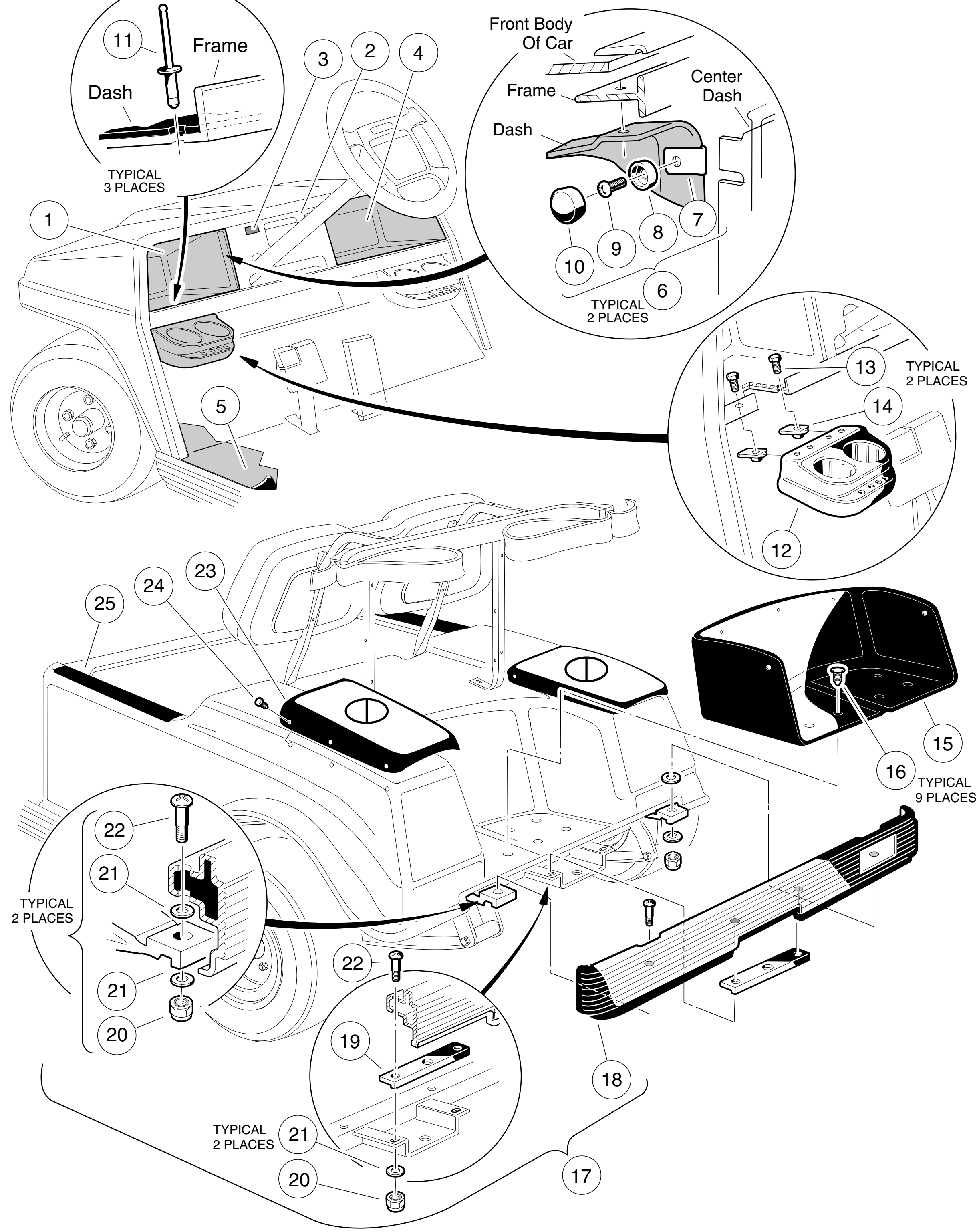
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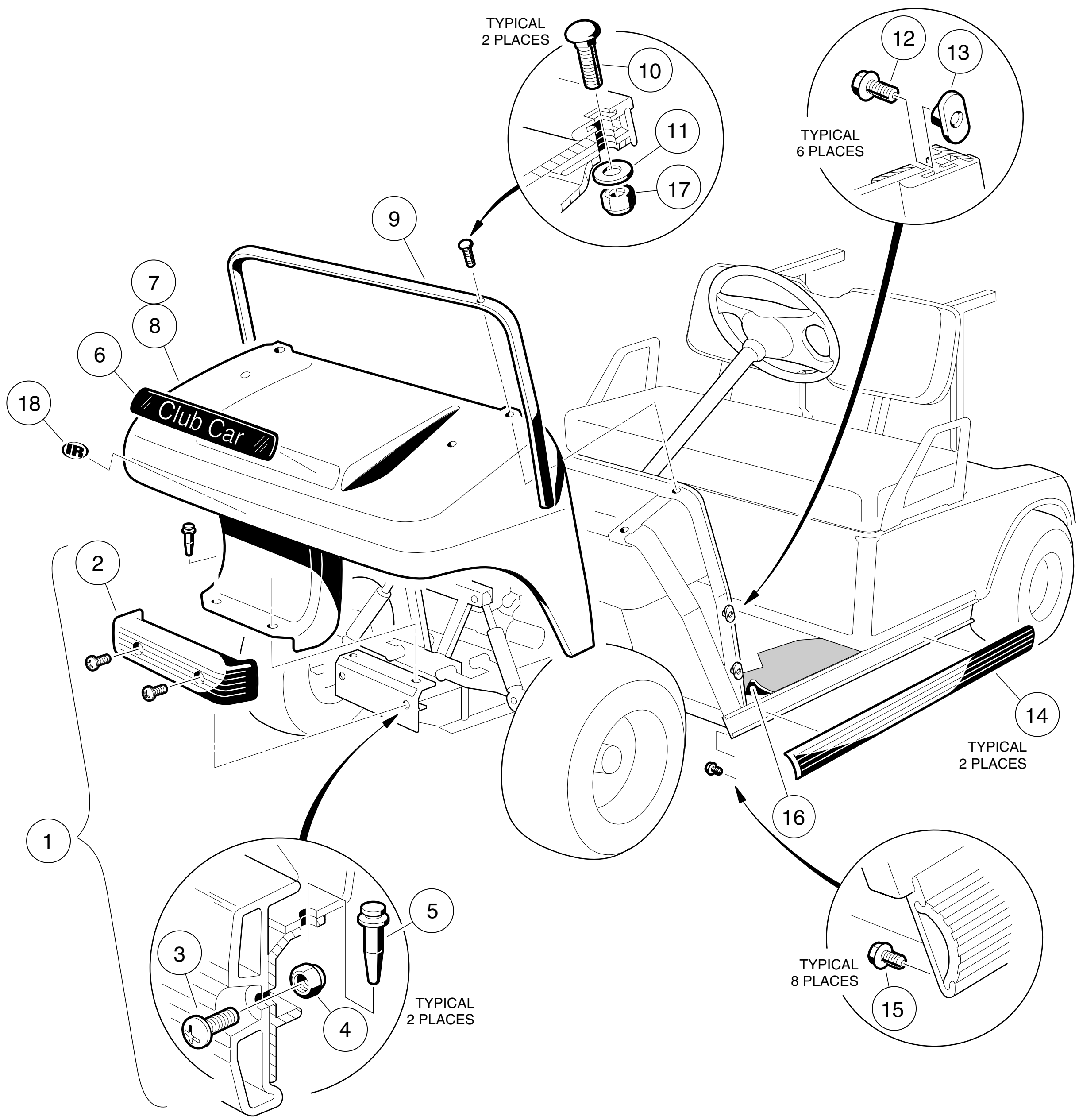
BODY AND TRIM

1
G
E



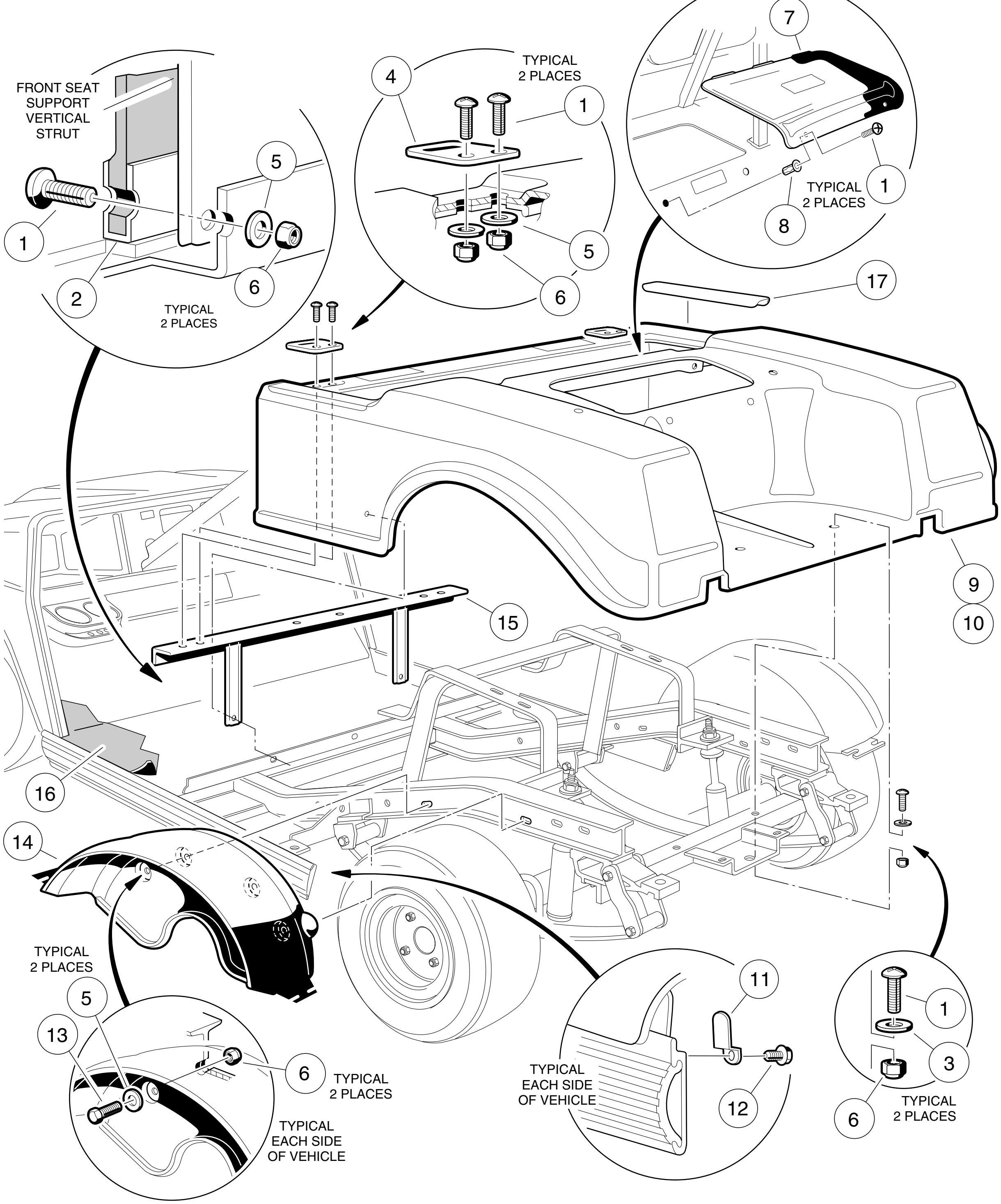
11
Frame
Dash
TYPICAL
3 PLACES
3
2
4
1
Front Body
Of Car
Frame
Center
Dash
Dash
7
8
9
10
6
TYPICAL
2 PLACES
13
TYPICAL
2 PLACES
14
12
5
23
24
25
15
16
TYPICAL
9 PLACES
22
21
TYPICAL
2 PLACES
21
20
22
19
18
TYPICAL
2 PLACES
21
20
17

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	1013344	Component, Driver Side Dash, Black	1	1
2	101660404	Panel, Center Dash, Black	1	1
3	101802601	Plug, Hole (V-Glide 36-Volt vehicle only)		1
4	1013343	Component, Passenger Side Dash, Black	1	1
5	1015032	Mat, Floor	1	1
6	1014645	Kit, Snap Washer, Black (includes items 7 - 10)	2	2
7	N/A	Nut, Speed	1	1
8	N/A	Washer, #10	1	1
9	N/A	Screw, #10 Sheet Metal	1	1
10	N/A	Cover, Screw Head	1	1
11	7973	Rivet, Aluminum Pop, 3/16	3	3
12	101708301	Kit, Drink Holder (includes items 13 and 14)	2	2
13	7847	Screw, Hex Head Cap, 1/4-20 x 3/4	2	2
14	1016952	U-Nut, 1/4-20	2	2
15	101768202	Kit, Bagwell Protector (includes item 16)	1	1
16	1010434	Fastener, Plastic Barrel	9	9
17	1017079	Kit, Rear Bumper (includes items 18 - 22)	1	1
18	1016379	Bumper, Rear	1	1
19	1016875	Plate, Mounting, Long	1	1
20	7473	Nut, Nylon Lock, 5/16-18	4	4
21	1011697	Washer, Special, 5/16	6	6
22	1016876	Bolt, Phillips Truss Head Shoulder, 3/8-18 x 2	4	4
23	101706702	Kit, Scuff Guard (includes item 24)	1	1
24	1010434	Fastener, Plastic Barrel	12	12
25	102221201	Pad, Wear	2	2


TYPICAL
2 PLACES
10
11
17
12
13
TYPICAL
6 PLACES
9
7
8
6
18
Club Car
2
14
TYPICAL
2 PLACES
16
1
5
3
4
TYPICAL
2 PLACES
TYPICAL
8 PLACES
15

FRONT BODY

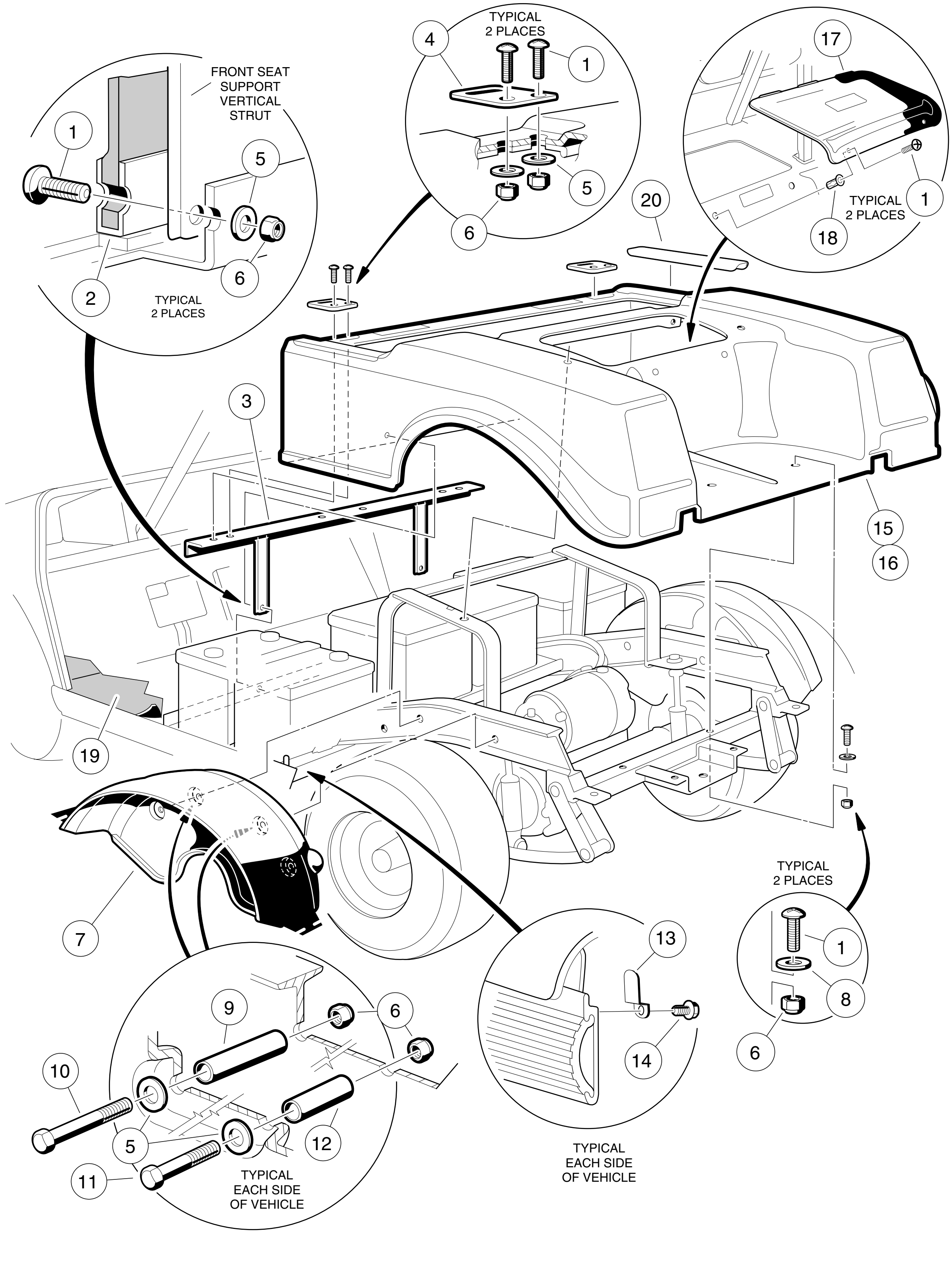
ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	1017080	Kit, Front Bumper (includes items 2 - 5)	1	1
2	1016868	Bumper, Front	1	1
3	7251	Screw, Phillips Truss Head, 5/16-18 x 1	2	2
4	7473	Nut, Nylon Lock, 5/16-18	2	2
5	1016967	Rivet, Push Type Blind	2	2
6	1014198	Nameplate – Gold	1	1
7	101692501	Body, Front – Beige	1	1
7	101692502	Body, Front – White	1	1
7	101692504	Body, Front – Gray	1	1
7	101692506	Body, Front – Red	1	1
7	101692509	Body, Front – Royal Blue (Pacific Blue)	1	1
7	101692510	Body, Front – Dark Green	1	1
7	101692511	Body, Front – Black	1	1
7	101692512	Body, Front – Classic Blue (Navy)	1	1
7	101692513	Body, Front – Burgundy	1	1
8	101693901	Body, Front with Headlight Opening – Beige	1	1
8	101693902	Body, Front with Headlight Opening – White	1	1
8	101693904	Body, Front with Headlight Opening – Gray	1	1
8	101693906	Body, Front with Headlight Opening – Red	1	1
8	101693908	Body, Front with Headlight Opening – Royal Blue (Pacific Blue)	1	1
8	101693909	Body, Front with Headlight Opening – Dark Green	1	1
8	101693910	Body, Front with Headlight Opening – Black	1	1
8	101693911	Body, Front with Headlight Opening – Classic Blue (Navy)	1	1
8	101693912	Body, Front with Headlight Opening – Burgundy	1	1
9	1011014	Trim, Front Body	1	1
10	1010435	Screw, Round-Head Square-Neck, 5/16-18 x 1	2	2
11	1241	Washer, Flat, 5/16	2	2
12	1011017	Screw, Flange Lock	6	6
13	1011394	T-Nut, Slab Base (package of 4)	1	1
14	101347501	Bumper, Side Guard Trim	2	2
15	102310701	Screw, Hex Washer-Head, #8-18 x 3/8	8	8
16	1015032	Mat, Floor	1	1
17	7473	Nut, Nylon Lock, 5/16-18	2	2
18	102259001	Emblem, IR, Golf Car (for 2002 vehicles)	1	1


FRONT SEAT SUPPORT VERTICAL STRUT
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL EACH SIDE OF VEHICLE
TYPICAL EACH SIDE OF VEHICLE
TYPICAL 2 PLACES
1
2
3
4
5
6
7
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9
10
11
12
13
14
15
16
17

REAR BODY AND FENDER – GASOLINE VEHICLE

1 G E

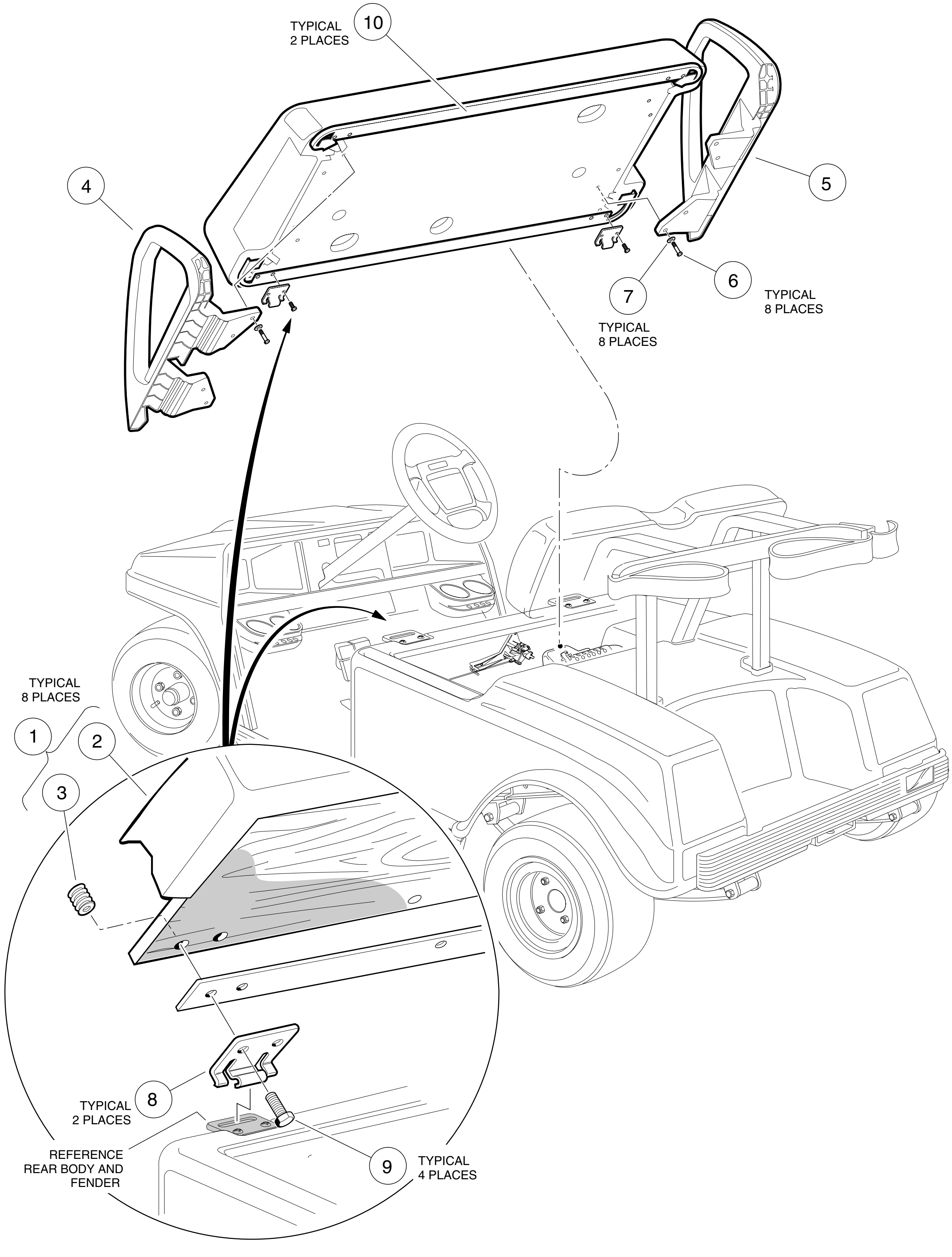
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	8251	Screw, Phillips Head, 1/4-20 x 1	10
2	101904101	Plate, Body Kick	1
3	1014306	Washer, Flat, Type B, 1/4	2
4	1012412	Plate, Body Hinge	2
5	332	Washer, Flat, 1/4	10
6	8233	Nut, Nylon Lock, 1/4-20	12
7	1013032	Door, Access – Black	1
7	1013140	Door, Access – Beige	1
8	1015525	Nut, Blind, 1/4-20	2
9	101692601	Body – Beige	1
9	101692602	Body – White	1
9	101692604	Body – Gray	1
9	101692606	Body – Red	1
9	101692609	Body – Royal Blue (Pacific Blue)	1
9	101692610	Body – Dark Green	1
9	101692611	Body – Black	1
9	101692612	Body – Classic Blue (Navy)	1
9	101692613	Body – Burgundy	1
10	101696208	Body with Taillight Opening – Beige	1
10	101696209	Body with Taillight Opening – White	1
10	101696211	Body with Taillight Opening – Gray	1
10	101696213	Body with Taillight Opening – Red	1
10	101696215	Body with Taillight Opening – Royal Blue (Pacific Blue)	1
10	101696216	Body with Taillight Opening – Dark Green	1
10	101696219	Body with Taillight Opening – Black	1
10	101696220	Body with Taillight Opening – Classic Blue (Navy)	1
10	101696221	Body with Taillight Opening – Burgundy	1
11	1017748	Clip, Body Keeper	2
12	1012047	Screw, Self-Tapping, #8-32 x 3/8	2
13	7847	Screw, Hex Head Cap, 1/4-20 x 3/4	4
14	1017936	Fender, Inner	2
15	1017141	Support, Front Body	1
16	1015032	Mat, Floor	1
17	102221201	Pad, Wear	2


FRONT SEAT
SUPPORT
VERTICAL
STRUT
1
2
5
6
TYPICAL
2 PLACES
4
TYPICAL
2 PLACES
1
5
6
17
1
18
TYPICAL
2 PLACES
20
3
15
16
19
7
9
6
10
5
11
12
TYPICAL
EACH SIDE
OF VEHICLE
13
14
TYPICAL
EACH SIDE
OF VEHICLE
TYPICAL
2 PLACES
1
8
6

REAR BODY AND FENDER – ELECTRIC VEHICLE

1 G E

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	8251	Screw, Phillips Head, 1/4-20 x 1	10
2	101904101	Plate, Body Kick	1
3	1017141	Support, Front Body	1
4	1012412	Plate, Body Hinge	2
5	332	Washer, Flat, 1/4	10
6	8233	Nut, Nylon Lock, 1/4-20	12
7	1017936	Fender, Inner	2
8	1014306	Washer, Flat, Type B, 1/4	2
9	1017814	Spacer, 1-7/8	2
10	1012159	Screw, Hex Head Cap, 1/4-20 x 2-3/4	2
11	7479	Screw, Hex Head Cap, 1/4-20 x 1-1/4	2
12	1017815	Spacer, 1/2	2
13	1017748	Clip, Body Keeper	2
14	1012047	Screw, Self-Tapping, #8-32	2
15	101693301	Body – Beige	1
15	101693302	Body – White	1
15	101693304	Body – Gray	1
15	101693306	Body – Red	1
15	101693309	Body – Royal Blue (Pacific Blue)	1
15	101693310	Body – Dark Green	1
15	101693311	Body – Black	1
15	101693312	Body – Classic Blue (Navy)	1
15	101693313	Body – Burgundy	1
16	101696201	Body with Taillight Opening – Beige	1
16	101696202	Body with Taillight Opening – White	1
16	101696204	Body with Taillight Opening – Gray	1
16	101696206	Body with Taillight Opening – Red	1
16	101696217	Body with Taillight Opening – Royal Blue (Pacific Blue)	1
16	101696218	Body with Taillight Opening – Dark Green	1
16	101696222	Body with Taillight Opening – Black	1
16	101696223	Body with Taillight Opening – Classic Blue (Navy)	1
16	101696224	Body with Taillight Opening – Burgundy	1
17	1013032	Door, Access – Black	1
17	1013140	Door, Access – Beige	1
18	1015525	Nut, Blind, 1/4-20	2
19	1015032	Mat, Floor	1
20	102221201	Pad, Wear	2

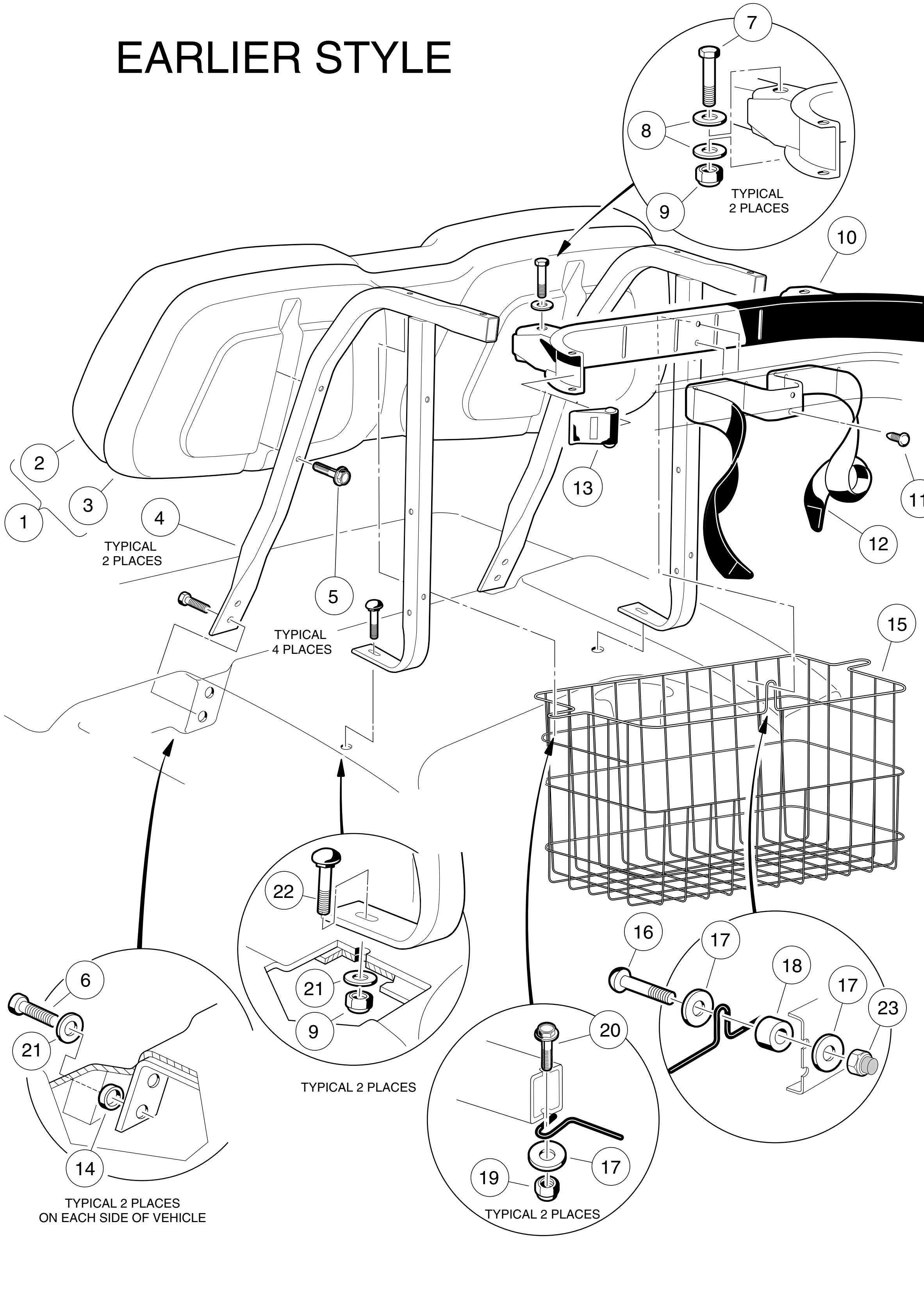

TYPICAL
2 PLACES
10
4
5
6
TYPICAL
8 PLACES
7
TYPICAL
8 PLACES
TYPICAL
8 PLACES
1
2
3
8
TYPICAL
2 PLACES
REFERENCE
REAR BODY AND
FENDER
9
TYPICAL
4 PLACES

SEAT BOTTOM AND ARMREST

1
G
E

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	102174201	Assembly, Seat Bottom – Buff (includes items 2 and 3)	1	1
1	102174202	Assembly, Seat Bottom – White (includes items 2 and 3)	1	1
1	102174204	Assembly, Seat Bottom – Black (includes items 2 and 3)	1	1
1	102174205	Assembly, Seat Bottom – Gray (includes items 2 and 3)	1	1
2	101998201	Cover, Vinyl Seat Bottom – Buff	1	1
2	101998202	Cover, Vinyl Seat Bottom – White	1	1
2	101998204	Cover, Vinyl Seat Bottom – Black	1	1
2	101998205	Cover, Vinyl Seat Bottom – Gray	1	1
3	1010543	Insert, Wood	12	12
4	101987601	Armrest, Driver Side	1	1
5	101985501	Armrest, Passenger Side	1	1
6	1016916	Screw, Hex Head Cap, 1/4-20 x 1-1/2	8	8
7	332	Washer, Flat, Type A	8	8
8	1011652	Plate, Seat Hinge, Stainless Steel	2	2
9	101954301	Screw, Hex Head Cap, 1/4-20 x 3/4 (with patch)	4	4
10	101998501	Gasket, Seat	2	2

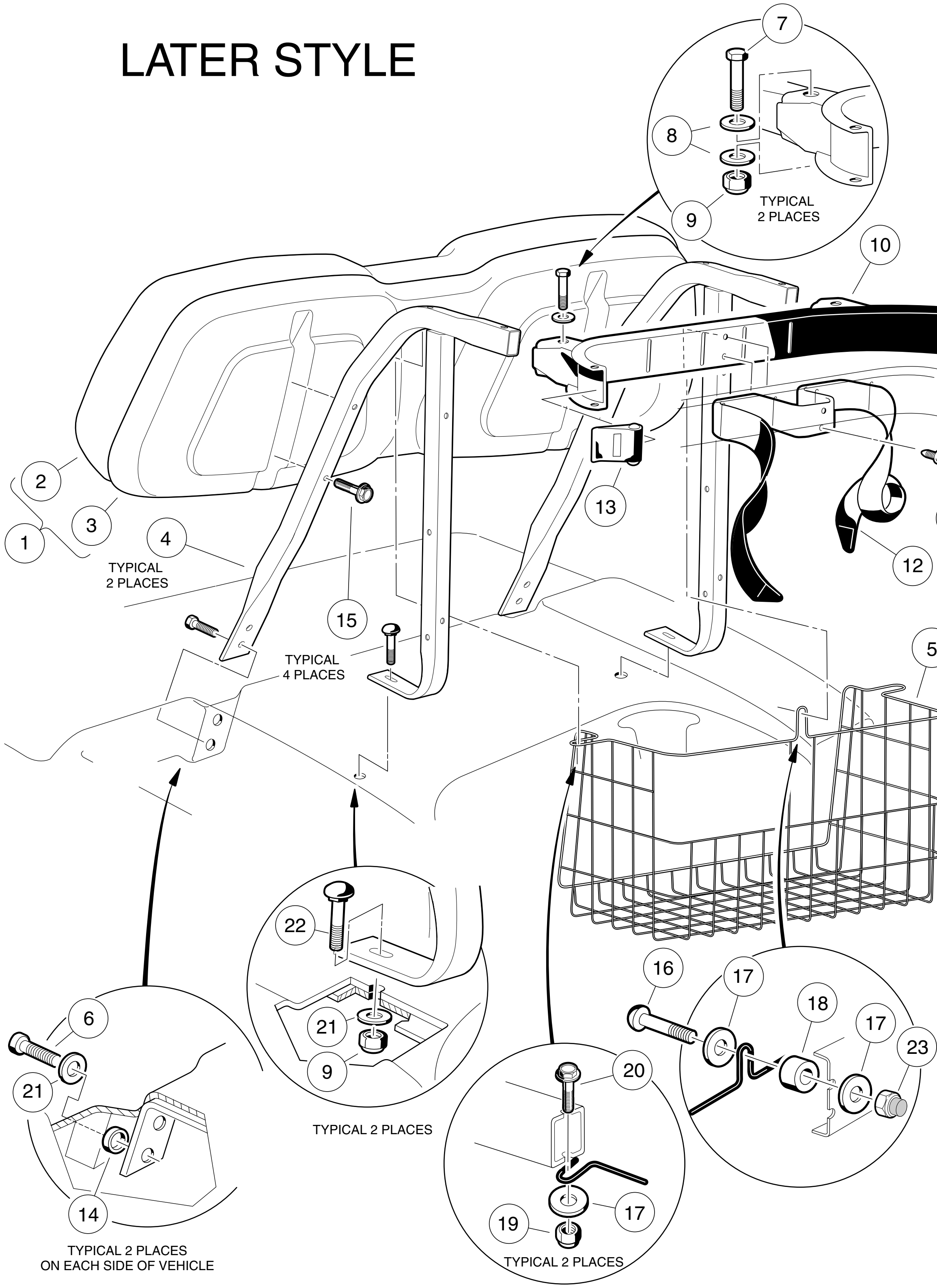
EARLIER STYLE



SEAT BACK AND BAG HOOP – EARLIER STYLE

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4 This manual includes two seat back styles. Not all parts are interchangeable, so it is important to identify the correct seat back style for your vehicle. Earlier and later seat back styles can be distinguished most easily by differences in the sweater basket design. Before ordering parts from this page, compare your vehicle's sweater basket to those shown on pages 1-12 and 1-14. Order from the page that corresponds to the sweater basket style of your vehicle.		
1	102076601	Assembly, Seat Back – Buff (includes item 2)	1	1
1	102076602	Assembly, Seat Back – White (includes item 2)	1	1
1	102076604	Assembly, Seat Back – Black (includes item 2)	1	1
1	102076605	Assembly, Seat Back – Gray (includes item 2)	1	1
2	102060501	Cover, Vinyl, Seat Back – Buff	1	1
2	102060502	Cover, Vinyl, Seat Back – White	1	1
2	102060504	Cover, Vinyl, Seat Back – Black	1	1
2	102060505	Cover, Vinyl, Seat Back – Gray	1	1
3	102058901	Cap, Seat Back – Black	1	1
4	102059901	Weldment, Support, Seat Back	2	2
5	102076701	Screw, SEMS (with Patch) 1/4-20 x 1-3/4	4	4
6	101910401	Screw, Self-Tapping, 5/16-18 x 1-1/4	4	4
7	1010921	Screw, Cap Hex Head, 5/16-18 x 2-1/2	2	2
8	1015075	Washer, Flat, 5/16	4	4
9	7473	Nut, Nylon Lock, 5/16-18	4	4
10	1013935	Assembly, Bag Hoop (includes items 11 - 13)	1	1
11	1010434	Fastener, Plastic Barrel	2	2
12	1010413	Strap, Bag	1	1
13	1013754	Buckle, Bag Strap	2	2
14	1017774	Spacer, Body	4	4
15	101707206	Kit, Sweater Basket (includes items 16 - 20)	1	1
16	8418	Screw, Phillips Truss Head, 1/4-20 x 1-1/2	1	1
17	1015075	Washer, Flat, 5/16	4	4
18	1014482	Spacer, Nylon	1	1
19	8233	Nut, Nylon Lock, 1/4-20	2	2
20	7479	Screw, Hex Head Cap, 1/4-20 x 1-1/4	2	2
21	1241	Washer, Flat, 5/16	6	6
22	7818	Screw, Round-Head Square-Neck, 5/16-18 x 1-1/2	2	2
23	102242401	Nut, Nylon Insert with Cap, 1/4-20	1	1
	102237903	Kit, Seat Back Retrofit (not shown) converts the earlier style seat back to the later style back (includes items 3, 4, and 5 on page 1-15)	1	1

LATER STYLE

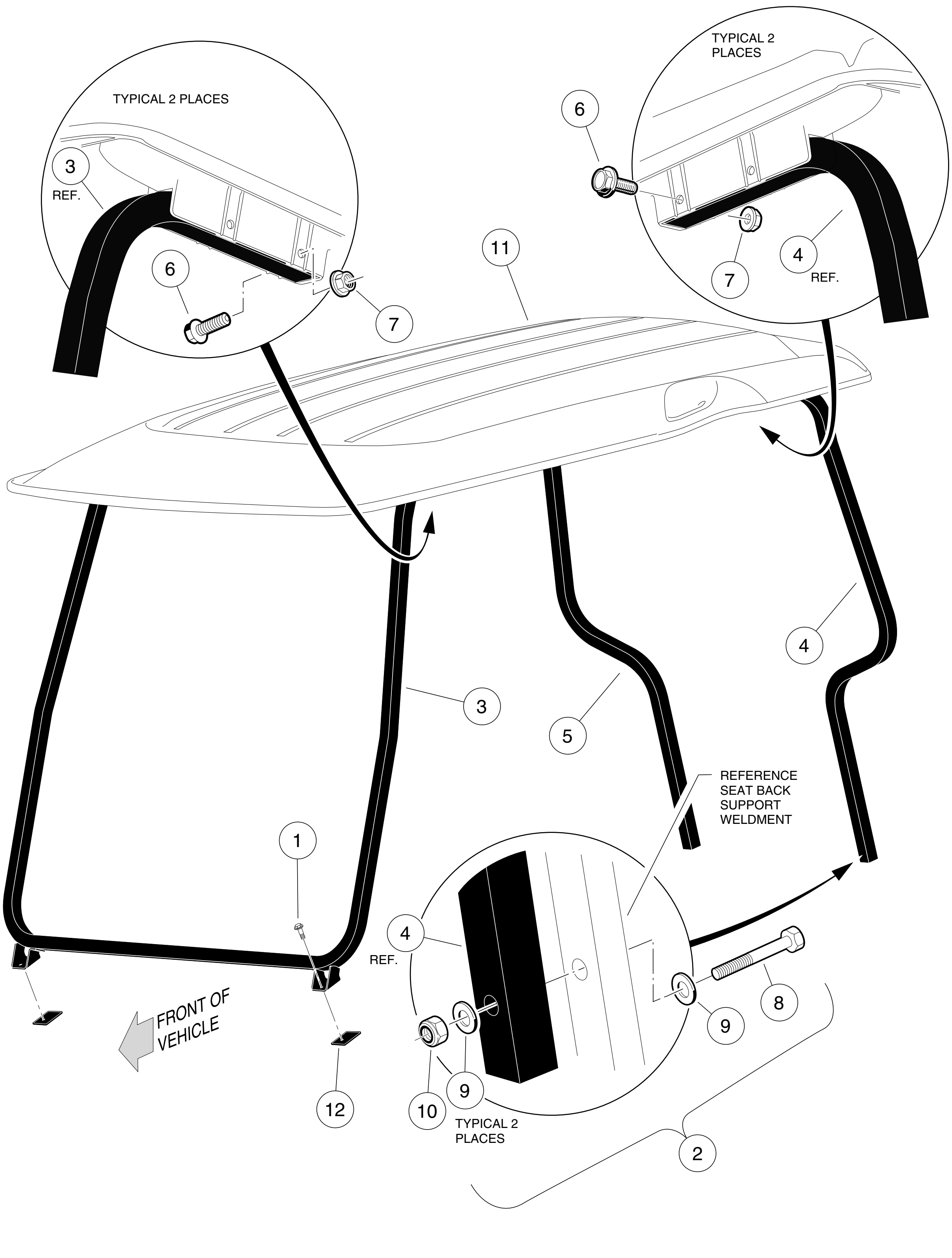

7
8
9
TYPICAL
2 PLACES
10
2
3
1
4
TYPICAL
2 PLACES
13
11
12
15
TYPICAL
4 PLACES
5
22
21
9
TYPICAL 2 PLACES
6
21
14
TYPICAL 2 PLACES
ON EACH SIDE OF VEHICLE
16
17
18
17
23
20
17
19
TYPICAL 2 PLACES

SEAT BACK AND BAG HOOP – LATER STYLE

1 G E

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4 This manual includes two seat back styles. Not all parts are interchangeable, so it is important to identify the correct seat back style for your vehicle. Earlier and later seat back styles can be distinguished most easily by differences in the sweater basket design. Before ordering parts from this page, compare your vehicle's sweater basket to those shown on pages 1-12 and 1-14. Order from the page that corresponds to the sweater basket style of your vehicle.		
1	102238301	Assembly, Seat Back – Buff (includes items 2 and 3)	1	1
1	102238302	Assembly, Seat Back – White (includes items 2 and 3)	1	1
1	102238304	Assembly, Seat Back – Black (includes items 2 and 3)	1	1
1	102238305	Assembly, Seat Back – Gray (includes items 2 and 3)	1	1
2	102060501	Cover, Vinyl, Seat Back – Buff	1	1
2	102060502	Cover, Vinyl, Seat Back – White	1	1
2	102060504	Cover, Vinyl, Seat Back – Black	1	1
2	102060505	Cover, Vinyl, Seat Back – Gray	1	1
3	102237001	Cap, Seat Back – Black	1	1
4	102236601	Weldment, Support, Seat Back	2	2
5	102236703	Basket, Sweater	1	1
6	101910401	Screw, Self-Tapping, 5/16-18 x 1-1/4	4	4
7	1010921	Screw, Cap Hex Head, 5/16-18 x 2-1/2	2	2
8	1015075	Washer, Flat, 5/16	4	4
9	7473	Nut, Nylon Lock, 5/16-18	4	4
10	1013935	Assembly, Bag Hoop (includes items 11 - 13)	1	1
11	1010434	Fastener, Plastic Barrel	2	2
12	1010413	Strap, Bag	1	1
13	1013754	Buckle, Bag Strap	2	2
14	1017774	Spacer, Body	4	4
15	102076701	Screw, SEMS (with Patch) 1/4-20 x 1-3/4	4	4
16	8418	Screw, Phillips Truss Head, 1/4-20 x 1-1/2	1	1
17	1015075	Washer, Flat, 5/16	4	4
18	1014482	Spacer, Nylon	1	1
19	8233	Nut, Nylon Lock, 1/4-20	2	2
20	7479	Screw, Hex Head Cap, 1/4-20 x 1-1/4	2	2
21	1241	Washer, Flat, 5/16	6	6
22	7818	Screw, Round-Head Square-Neck, 5/16-18 x 1-1/2	2	2
23	102242401	Nut, Nylon Insert with Cap, 1/4-20	1	1
	102237903	Kit, Seat Back Retrofit (not shown) converts the earlier style seat back to the later style back (includes items 3, 4, and 5)	1	1

1
G
E



TYPICAL 2 PLACES
3
REF.
6
7
11
TYPICAL 2
PLACES
6
7
4
REF.
3
5
4
REFERENCE
SEAT BACK
SUPPORT
WELDMENT
1
4
REF.
FRONT OF
VEHICLE
12
10
9
TYPICAL 2
PLACES
9
8
2

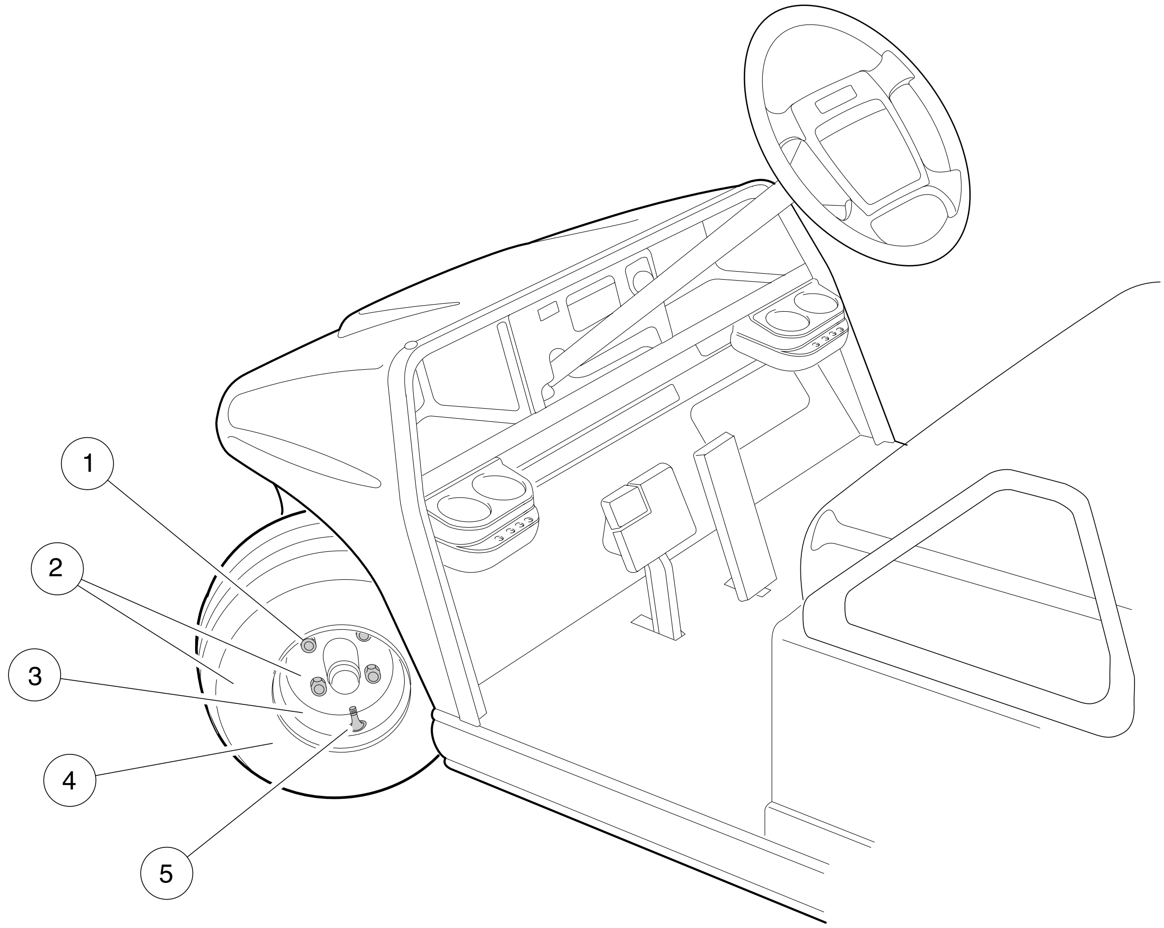
ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	102099101	Screw, SEMS (with patch) 5/16-18 x 1	2	2
2	102155501	Kit, Support (includes items 3 - 10)	1	1
3	102063901	Weldment, Windshield	1	1
4	102065501	Support, Rear Canopy (driver side)	1	1
5	102064601	Support, Rear Canopy (passenger side)	1	1
6	102076701	Screw, Sems, (with patch) 1/4-20 x 1-3/4	8	8
7	101835601	Nut, Flange, 1/4-20	8	8
8	324	Screw, Hex Head Cap, 1/4-20 x 2-1/2	2	2
9	332	Washer, Flat, 1/4	4	4
10	8233	Nut, Lock, 1/4-20	2	2
11	102061301	Canopy – White	1	1
11	102061302	Canopy – Beige	1	1
12	102198301	Pad, Mounting (windshield frame)	2	2

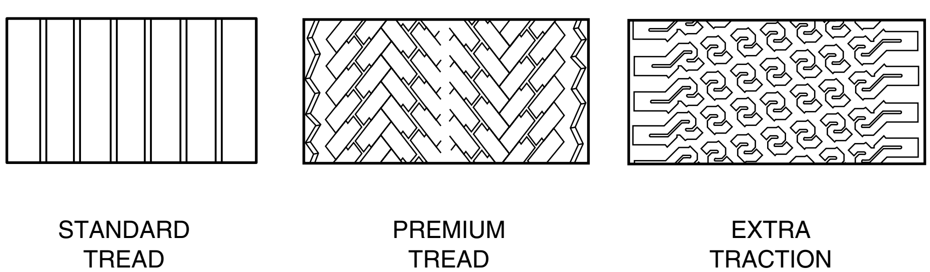
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WHEELS AND TIRES


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2
3
4
5


STANDARD
TREAD
PREMIUM
TREAD
EXTRA
TRACTION

WHEELS AND TIRES

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	1010984	Nut, Lug	16	16
2	101570501	Assembly, Wheel (beige) and Standard Tread Tire (18 x 8.50 - 8)	4	4
2	101570502	Assembly, Wheel (beige) and Premium Tread Tire (18 x 8.50 - 8) (Carlisle®)	4	4
2	101570507	Assembly, Wheel (beige) and Extra Traction Tire, 6-Ply Rated (18 x 8.50 - 8)	4	4
2	101570508	Assembly, Wheel (beige) and Performance Grade Tread Tire (18 x 8.50 - 8) (Duro®)	4	4
2	101570513	Assembly, Wheel (beige) and Premium Grade Tire (18 x 8.50 - 8) (Kenda®)	4	4
2	101651401	Assembly, Wheel (white) and Standard Tread Tire (18 x 8.50 - 8)	4	4
2	101651402	Assembly, Wheel (white) and Premium Tread Tire (18 x 8.50 - 8) (Carlisle)	4	4
2	101651407	Assembly, Wheel (white) and Extra Traction Tire, 6-Ply Rated (18 x 8.50 - 8)	4	4
2	101651408	Assembly, Wheel (white) and Performance Grade Tread Tire (18 x 8.50 - 8) (Duro)	4	4
2	101651413	Assembly, Wheel (white) and Premium Grade Tire (18 x 8.50 - 8) (Kenda)	4	4
3	1015707	Wheel Rim – Beige	4	4
3	1014771	Wheel Rim – White	4	4
4	727102	Tire, Unmounted, Standard Tread (18 x 8.50 - 8)	4	4
4	101567201	Tire, Unmounted, Performance Grade Tread (Duro)	4	4
4	101567202	Tire, Unmounted, Premium Tread (18 x 8.50 - 8) (Carlisle)	4	4
4	101769302	Tire, Unmounted, Extra Traction, 6-Ply Rated (18 x 8.50 - 8)	4	4
5	7310	Stem, Valve	4	4

2
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DECALS

⚠ WARNING

ROLLOVER OR FALLING OFF MAY CAUSE DEATH.

- Before using vehicle, read operating instructions.
- Remain seated and hold on to seat handle while moving.
- Do not start vehicle until all occupants are seated.
- Two (2) persons per seat maximum.
- Operate from driver side only and not on public roads.
- Keep entire body inside vehicle while moving.
- Drive slowly in turns and straight up and down slopes.
- Do not leave children unattended on vehicle.
- Never operate under the influence of alcohol or drugs.
- Use brakes to reduce speed when coasting downhill.
- Never stand in front of or behind vehicle.

CCI 1019606-01

DRIVER / PASSENGER WARNING DECAL

OFF | ON

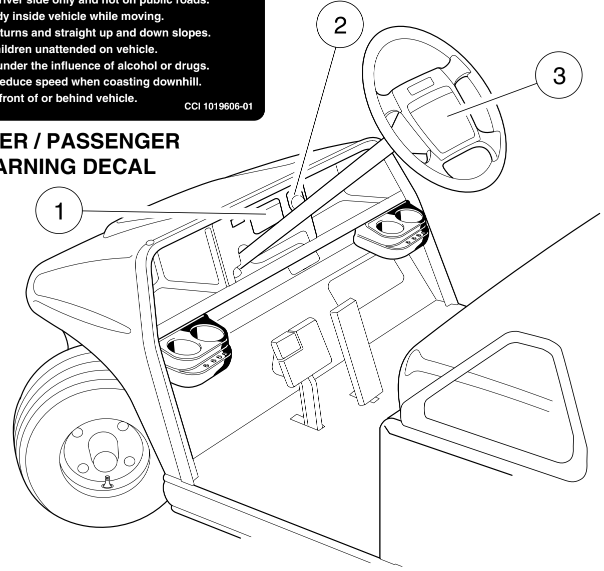
KEY SWITCH DECAL

OPERATING INSTRUCTIONS

- Read Owner's Manual and safety warnings located on dash panel prior to driving.
- Study and understand controls.
- Make sure wheels are turned in desired direction.
- Turn key to "ON" position and be sure nothing is in your path.
- While vehicle is stopped, select direction by placing shift lever or switch in desired position:
  F – Forward N – Neutral R – Reverse (Buzzer will sound)
- Vehicle will start moving when accelerator pedal is depressed.
- Slowly depress accelerator pedal to increase speed. Park brake will release when accelerator pedal is depressed.
- To stop, release accelerator pedal and depress brake pedal.
- After stopping, firmly depress park brake until it locks.
- Place forward and reverse switch in neutral position. Turn key "OFF" and remove key when not in use.

CCI 1016216-01

OPERATING INSTRUCTIONS DECAL



⚠ WARNING

CAN CAUSE SEVERE INJURY

Rotating parts

HOT manifold & muffler

KEEP CLEAR

CCI 1019605-01

ROTATING PARTS AND HOT MANIFOLD DECAL
(ON STARTER/GENERATOR AND ENGINE)

⚠ WARNING

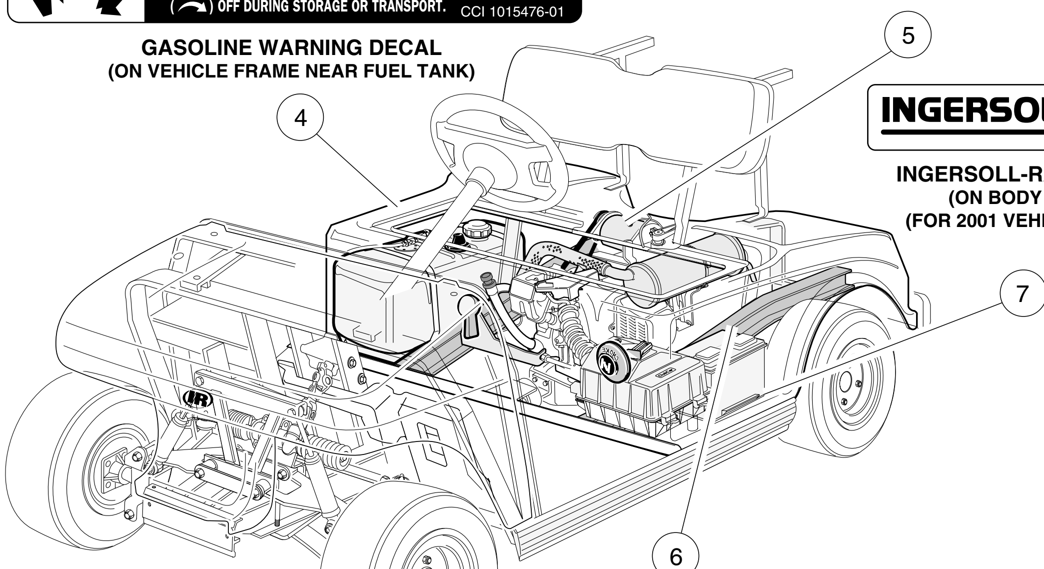
- GASOLINE EXPLOSION / FIRE.
- CAN CAUSE SEVERE INJURY OR DEATH.
- NO SMOKING, SPARKS, OR OPEN FLAME.
- STOP ENGINE, ALLOW TO COOL BEFORE REFUELING.
- TURN FUEL VALVE ( ) ON DURING OPERATION. ( ) OFF DURING STORAGE OR TRANSPORT.

CCI 1015476-01

GASOLINE WARNING DECAL
(ON VEHICLE FRAME NEAR FUEL TANK)

INGERSOLL-RAND

INGERSOLL-RAND DECAL
(ON BODY PANEL)
(FOR 2001 VEHICLES ONLY)



FRAME GROUND AND GOVERNOR WARNING DECAL
(ON VEHICLE FRAME NEAR BATTERY)

⚠ WARNING

Negative frame ground. Can cause severe injury.
Do not contact positive (+) battery post or cable to frame.
Disconnect negative battery lead first.

⚠ WARNING

Excessive speed.
Can cause severe injury or death.
Do not tamper with engine governor adjustment.

CCI 1019152-01

DECALS – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101960601	Decal, Driver/Passenger Warning	1
2	101825101	Decal, Key Switch	1
3	101621601	Decal, Operating Instructions	1
4	101547601	Decal, Gasoline Warning	1
5	101960501	Decal, Rotating Parts and Hot Manifold Warning	2
6	101915201	Decal, Frame Ground and Governor Warning	1
7	101952401	Decal, Ingersoll-Rand – Gold (for 2001 vehicles only)	2

3
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⚠ WARNING

ROLLOVER OR FALLING OFF MAY CAUSE DEATH.

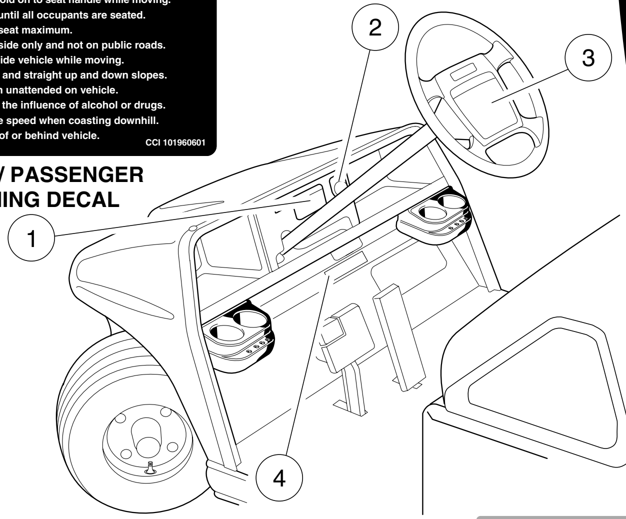
- Before using vehicle, read operating instructions.
- Remain seated and hold on to seat handle while moving.
- Do not start vehicle until all occupants are seated.
- Two (2) persons per seat maximum.
- Operate from driver side only and not on public roads.
- Keep entire body inside vehicle while moving.
- Drive slowly in turns and straight up and down slopes.
- Do not leave children unattended on vehicle.
- Never operate under the influence of alcohol or drugs.
- Use brakes to reduce speed when coasting downhill.
- Never stand in front of or behind vehicle.

CCI 101960601

DRIVER / PASSENGER WARNING DECAL

OFF ON

KEY SWITCH DECAL



OPERATING INSTRUCTIONS

- Read Owner's Manual and safety warnings located on dash panel prior to driving.
- Study and understand controls.
- Make sure wheels are turned in desired direction.
- Turn key to "ON" position and be sure nothing is in your path.
- While vehicle is stopped, select direction by placing shift lever or switch in desired position:
  F – Forward N – Neutral R – Reverse (Buzzer will sound)
- Vehicle will start moving when accelerator pedal is depressed.
- Slowly depress accelerator pedal to increase speed. Park brake will release when accelerator pedal is depressed.
- To stop, release accelerator pedal and depress brake pedal.
- After stopping, firmly depress park brake until it locks.
- Place forward and reverse switch in neutral position. Turn key "OFF" and remove key when not in use.

CCI 1016216-01

OPERATING INSTRUCTIONS DECAL

ELECTRICAL COMPONENT DECAL
(ON SPEED CONTROLLER COVER IQ SYSTEM VEHICLE ONLY)

NOTICE

Do not operate vehicle without this cover properly installed.
Do not direct water stream in this area; will cause damage to components.
See vehicle maintenance and service manual before servicing. CCI 101931501

MOTOR BRAKING DECAL
(POWERDRIVE PLUS VEHICLES ONLY)

IMPORTANT NOTICE

VEHICLE EQUIPPED TO LIMIT DOWNHILL SPEED

- Maximum vehicle speed is limited during downhill operation with accelerator pedal depressed.
- Vehicle will brake gently when accelerator pedal is released.
- System is activated only when tow switch is in the "RUN" position.
- When towing vehicle, tow switch must be in the "TOW" position.

CCI 1019599-01

(IQ SYSTEM VEHICLES ONLY)

IMPORTANT NOTICE

- Maximum vehicle speed is limited by motor braking during downhill operation with accelerator pedal depressed.
- If motor brake enabled, vehicle motor will brake when accelerator pedal is released.
- Beeping alarm indicates reduction in motor braking. Apply brakes to reduce speed.
- System is activated only when tow switch is in the "RUN" position.
- When towing vehicle, tow switch must be in the "TOW" position.

101959902

NOTICE

- DO NOT OPERATE VEHICLE WITHOUT COVER IN PLACE.
- DO NOT DIRECT WATER STREAM AT THIS SWITCH.

CCI 1016109-01

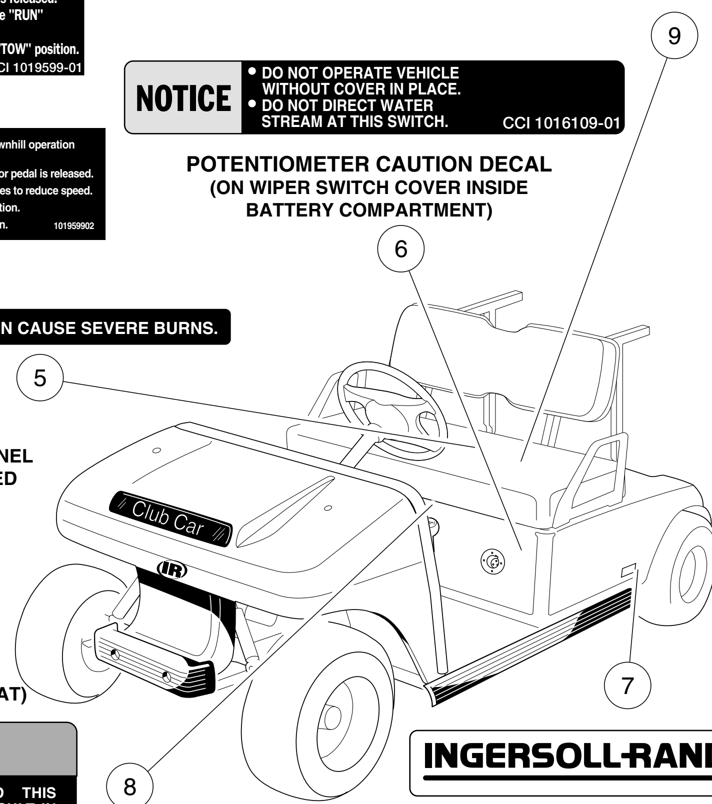
POTENTIOMETER CAUTION DECAL
(ON WIPER SWITCH COVER INSIDE BATTERY COMPARTMENT)

⚠ WARNING HOT RESISTORS (COILED WIRE) CAN CAUSE SEVERE BURNS.

RESISTOR WARNING DECAL

(ON FRAME UNDER SEAT ON V-GLIDE 36 VOLT VEHICLE)

(ON MOUNTING PLATE UNDER ACCESS PANEL ON POWERDRIVE PLUS VEHICLE EQUIPPED WITH A DB SOLENOID AND COIL)



TOW/RUN SWITCH WARNING DECAL
(ON TOW/RUN SWITCH BRACKET UNDER SEAT)

⚠ WARNING TOW RUN

Place Tow/Run switch in TOW position before:

- Disconnecting or connecting batteries
- Towing
- Extended storage
- Servicing

FAILURE TO HEED THIS WARNING COULD RESULT IN A BATTERY EXPLOSION OR SEVERE PERSONAL INJURY.

CCI 101908601

(POWERDRIVE PLUS AND IQ SYSTEM VEHICLES)

INGERSOLL-RAND

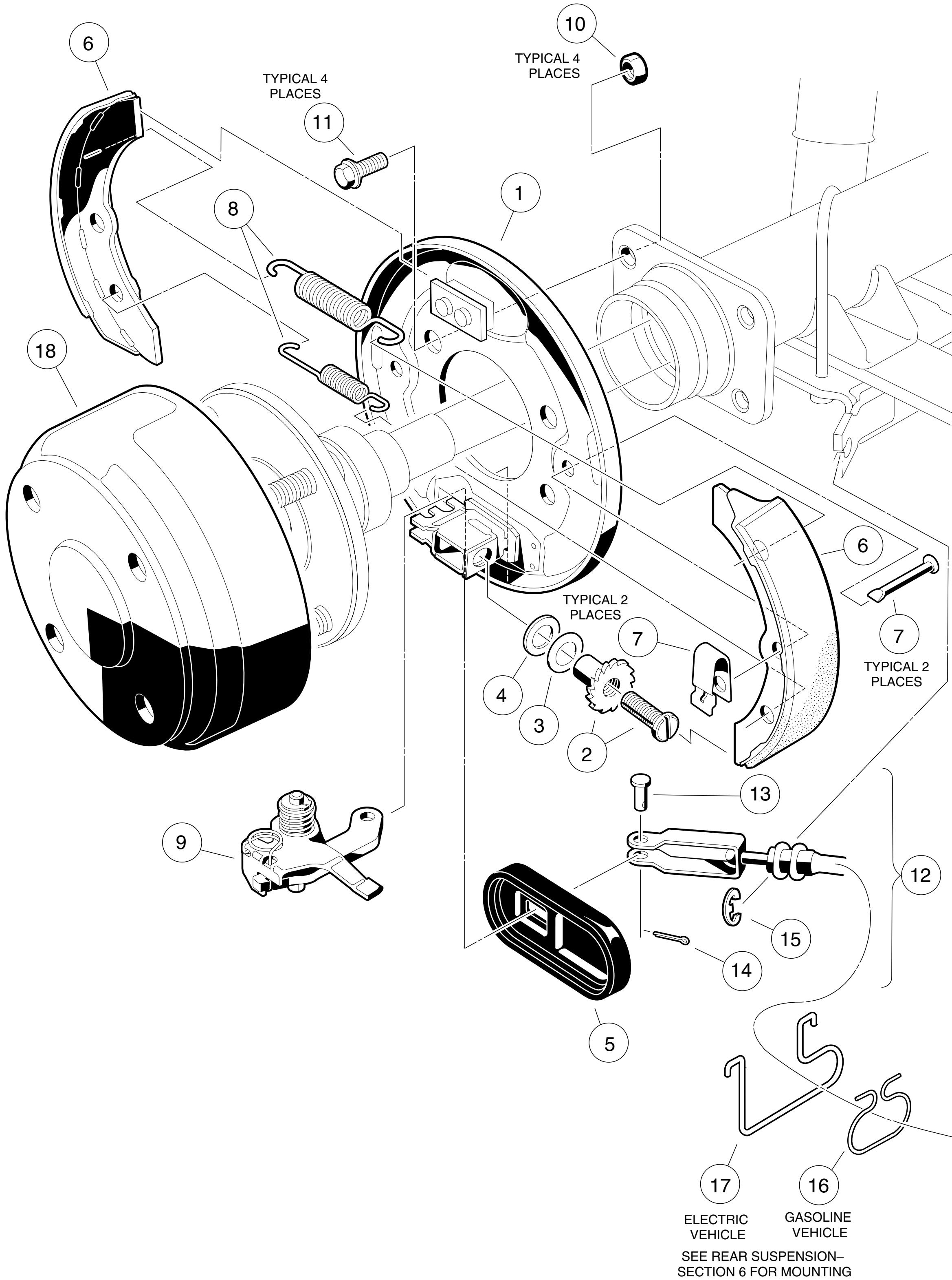
INGERSOLL-RAND DECAL
(ON BODY PANEL)
(FOR 2001 VEHICLES ONLY)

DECALS – ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101960601	Decal, Driver/Passenger Warning	1
2	101825101	Decal, Key Switch	1
3	101621601	Decal, Operating Instructions	1
4	101959901	Decal, Motor Braking (PowerDrive Plus vehicle)	1
4	101959902	Decal, Motor Braking (IQ System vehicle)	1
5	1013496	Decal, Resistor Warning (V-Glide 36-Volt and PowerDrive Plus vehicles)	1
6	101610901	Decal, Potentiometer Caution	1
7	101952401	Decal, Ingersoll-Rand – Gold (for 2001 vehicles only)	2
8	101908601	Decal, Tow/Run Switch (PowerDrive Plus and IQ System vehicles)	1
9	101931501	Decal, Electrical Component Cover (IQ System vehicle)	1

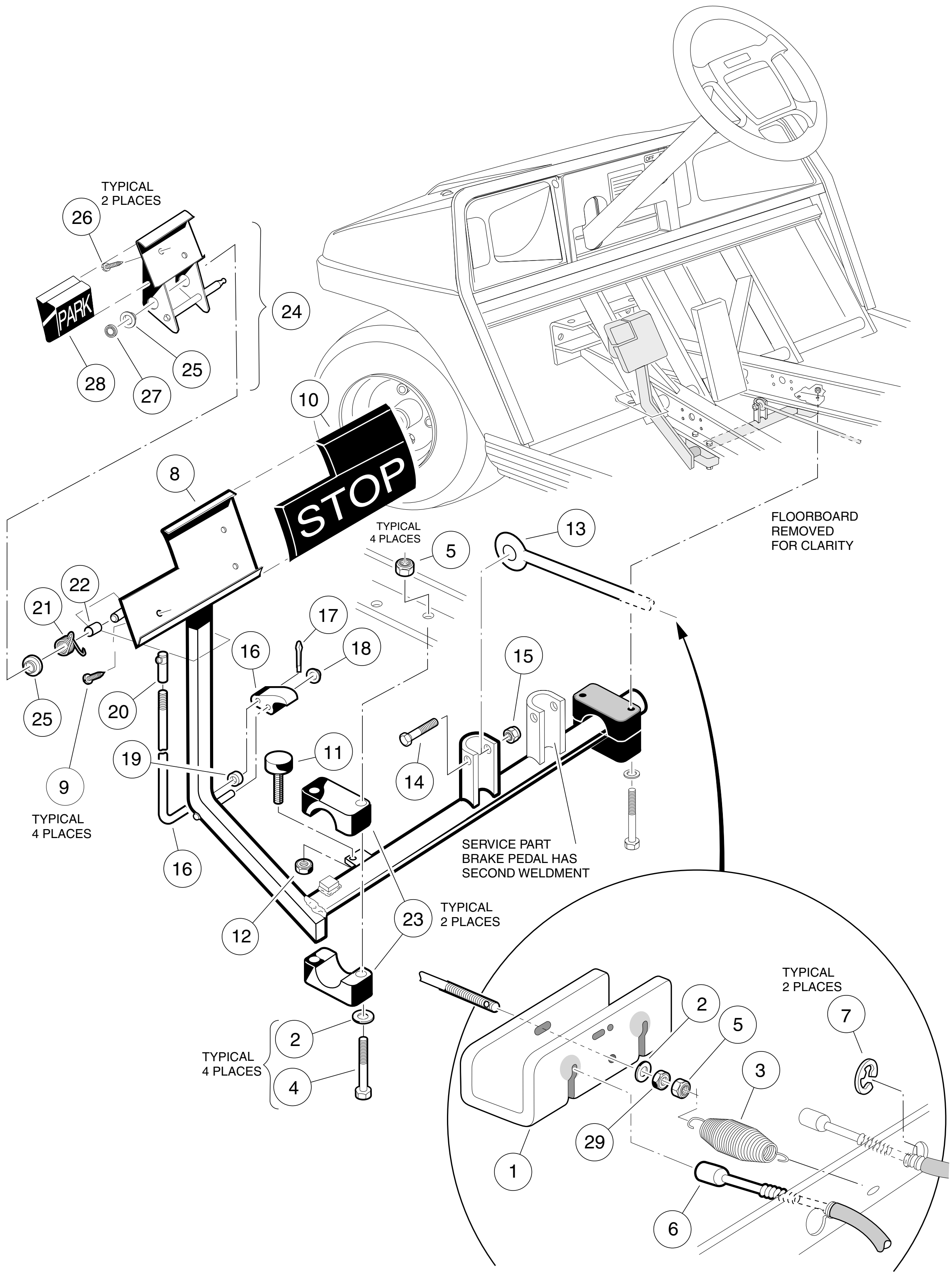
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BRAKES, PEDAL, AND CABLE ASSEMBLIES


10
TYPICAL 4
PLACES
6
TYPICAL 4
PLACES
11
1
8
18
6
TYPICAL 2
PLACES
7
7
TYPICAL 2
PLACES
4
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13
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12
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14
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17
16
ELECTRIC
VEHICLE
GASOLINE
VEHICLE
SEE REAR SUSPENSION–
SECTION 6 FOR MOUNTING

BRAKE ASSEMBLY

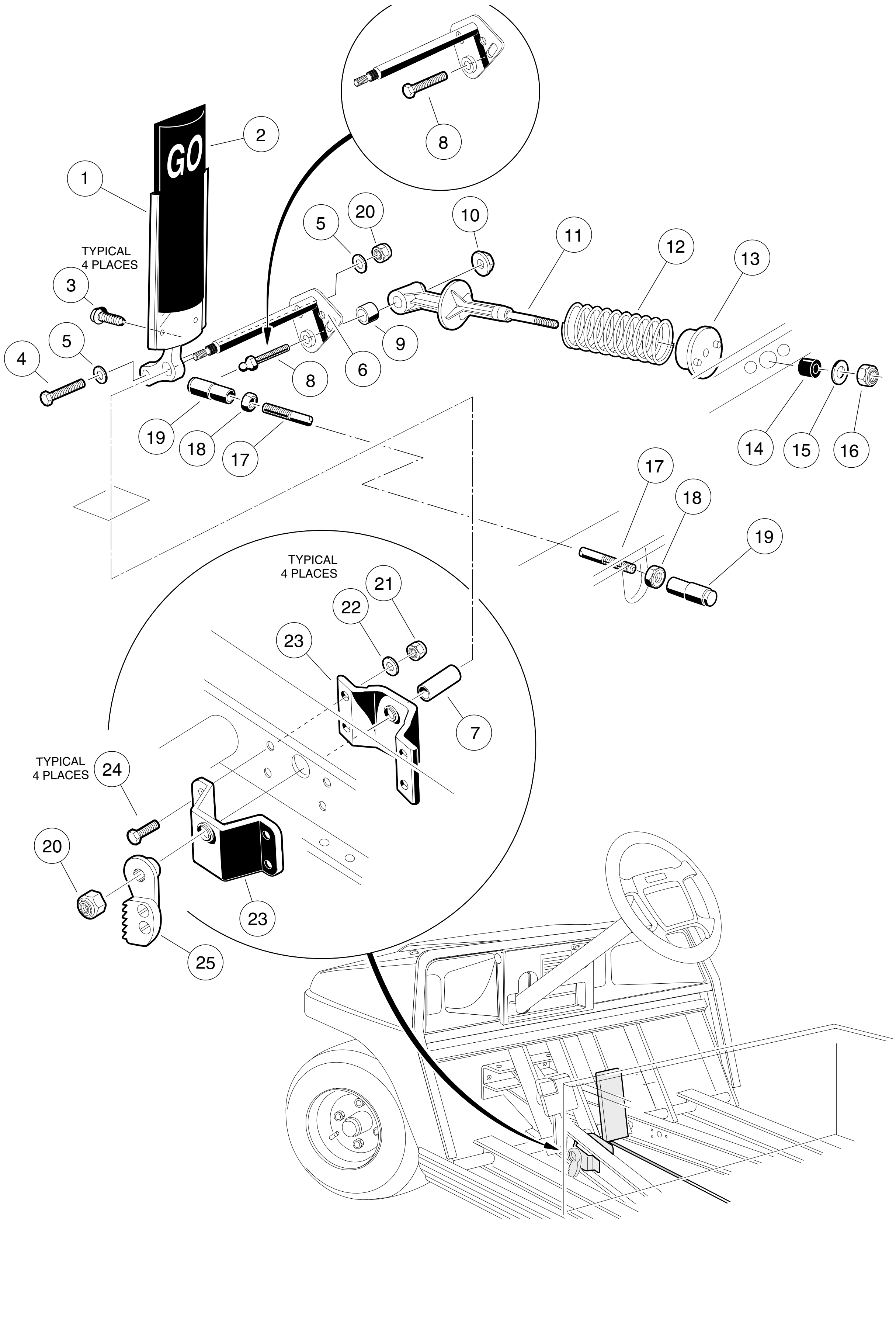
ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
	101823301	Cluster, Brake, Passenger Side (includes items 1 - 9)	1	1
	101823302	Cluster, Brake, Driver Side (includes items 1 - 9)	1	1
1	101824001	Assembly, Backing Plate, Passenger Side (includes items 2 - 4)	1	1
1	101824002	Assembly, Backing Plate, Driver Side (includes items 2 - 4)	1	1
2	101816501	Mechanism, Adjusting, Passenger Side	1	1
2	101816502	Mechanism, Adjusting, Driver Side	1	1
3	101823901	Washer	1	1
4	101823801	Washer, Plate	1	1
5	1010850	Cover, Dust	1	1
6	101823201	Package, Brake Shoe (four pieces)	1	1
7	1011466	Kit, Shoe Retainer (four pieces)	1	1
8	101816301	Package, Brake Spring (four pieces)	1	1
9	101815501	Assembly, Lever, Passenger Side	1	1
9	101815502	Assembly, Lever, Driver Side	1	1
10	1013924	Nut, Hex Head Lock, Grade 8, 5/16-24	8	8
11	1014153	Bolt, Brake Cluster Mounting, Grade 8, 5/16-24 x 7/8	8	8
12	102022101	Kit, Brake Cable (includes items 13 -15)	2	2
13	1010829	Pin, Clevis, 5/16	2	2
14	1035	Pin, Cotter, 3/32 x 1	2	2
15	1011779	E-Clip, 1/2	2	2
16	101900801	Hanger, Brake Cable (gasoline vehicle only)	2	
17	1013207	Hanger, Brake Cable (electric vehicle only)		2
18	101791101	Drum, Brake	2	2


TYPICAL
2 PLACES
26
24
PARK
28
27
25
10
8
STOP
TYPICAL
4 PLACES
5
13
FLOORBOARD
REMOVED
FOR CLARITY
22
21
17
16
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25
20
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11
14
9
TYPICAL
4 PLACES
16
SERVICE PART
BRAKE PEDAL HAS
SECOND WELDMENT
12
23
TYPICAL
2 PLACES
TYPICAL
2 PLACES
7
2
5
3
2
TYPICAL
4 PLACES
4
29
1
6

BRAKE PEDAL AND CABLE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	101990801	Equalizer	1	1
2	1241	Washer, Flat, 5/16	5	5
3	1013531	Spring, Brake Return	1	1
4	1010921	Screw, Hex Head Cap, 5/16-18 x 2-1/2	4	4
5	7473	Nut, Nylon Lock, 5/16-18	5	5
6	102022101	Kit, Brake Cable (includes item 7, and Items 13 and 14 on page 4-3)	2	2
7	1011779	E-Clip, 1/2	2	2
8	101878201	Kit, Brake Pedal (includes items 9 and 10)	1	1
9	7716	Screw, Slotted Hex Washer Head, #10-16 x 1/2	4	4
10	1013869	Pad, Brake Pedal	1	1
11	1010878	Bumper, Rubber	1	1
12	1028	Nut, Hex, 1/4-20	1	1
13	101953101	Rod, Equalizer	1	1
14	101953001	Bolt, Hex Head Shoulder, 3/8 x 1	1	1
15	7473	Nut, Nylon Lock, 5/16-18	1	1
	101187702	Kit, Park Brake Latch (includes items 16 - 20 and Item 25 on Page 4-7)	1	1
16	N/A	Rod And Pawl	1	1
17	1017029	Pin, Cotter, 7/64 x 1/2	1	1
18	1010877	Nut, Push, 5/16	1	1
19	1010805	Sleeve, Park Brake Rod	1	1
20	1010932	Joint, Ball, 1/4-28	1	1
21	1010933	Spring, Park Brake Torsion	1	1
22	1010927	Spacer, Park Brake	1	1
23	1011402	Package, Brake Mounting Block (contains upper and lower for driver and passenger sides)	1	1
24	1011418	Kit, Park Brake Pedal (includes items 25 - 28)	1	1
25	1032	Bushing, Nylon	2	2
26	8626	Screw, Slotted Hex Washer Head, #10-16 x 1/2	2	2
27	1013876	Nut, Push, 3/8	1	1
28	1013870	Pad, Park Brake	1	1
29	1242	Nut, Hex, 5/16-18	1	1

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GO
TYPICAL
4 PLACES
TYPICAL
4 PLACES
TYPICAL
4 PLACES
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ACCELERATOR PEDAL ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	1017696	Sub-Assembly, Accelerator Pedal (includes Items 2 and 3)	1	1
2	1013871	Pad, Accelerator Pedal	1	1
3	7716	Screw, Slotted Hex Washer Head, #10-16 x 1/2	4	4
4	1624	Screw, Hex Cap, 3/8-16 x 1-1/2	1	1
5	334	Washer, Flat, 3/8	2	2
6	102026001	Kit, Accelerator Pivot Rod (includes Item 7)	1	1
7	1011700	Spacer	1	1
8	101818801	Stud, Ball (for all vehicles except those equipped with MCOR)	1	1
8	101862001	Screw, Hex Head Cap, 1/4-20 x 1-3/8 (MCOR vehicles)	1	1
9	1017424	Bearing, Pivot Support	1	1
10	101966901	Nut, Flange, 1/4-28	1	1
11	101817401	Retainer, Spring	1	1
12	101796201	Spring, Return	1	1
13	1017378	Cup, Spring	1	1
14	1017380	Bumper, Return Spring	1	1
15	1241	Washer, Flat, 5/16	1	1
16	7473	Nut, Nylon Lock, 5/16-18	1	1
17	101871901	Assembly, Accelerator Rod (PowerDrive System 48 vehicles equipped with multi-step potentiometers and all V-Glide 36-Volt vehicles) (includes items 18 and 19)		1
17	101912401	Assembly, Accelerator Rod (gasoline vehicle only) (includes items 18 and 19)	1	
18	1011084	Nut, UNF Hex Jam, 1/4-28	2	2
19	1011734	Joint, Spring-Loaded Ball	2	2
20	8754	Nut, Nylon Lock, 3/8-16	2	2
21	8233	Nut, Nylon Lock, 1/4-20	4	4
22	1014007	Washer, Flat, Type B, 1/4	4	4
23	1011694	Support, Accelerator Pivot Rod	2	2
24	101861901	Screw, Hex Cap, 1/4-20 x 1-1/8	4	4
	101187702	Kit, Park Brake Latch (includes item 25, and items 16 - 20 on page 4-5)	1	1
25	N/A	Ratchet, Park Brake	1	1

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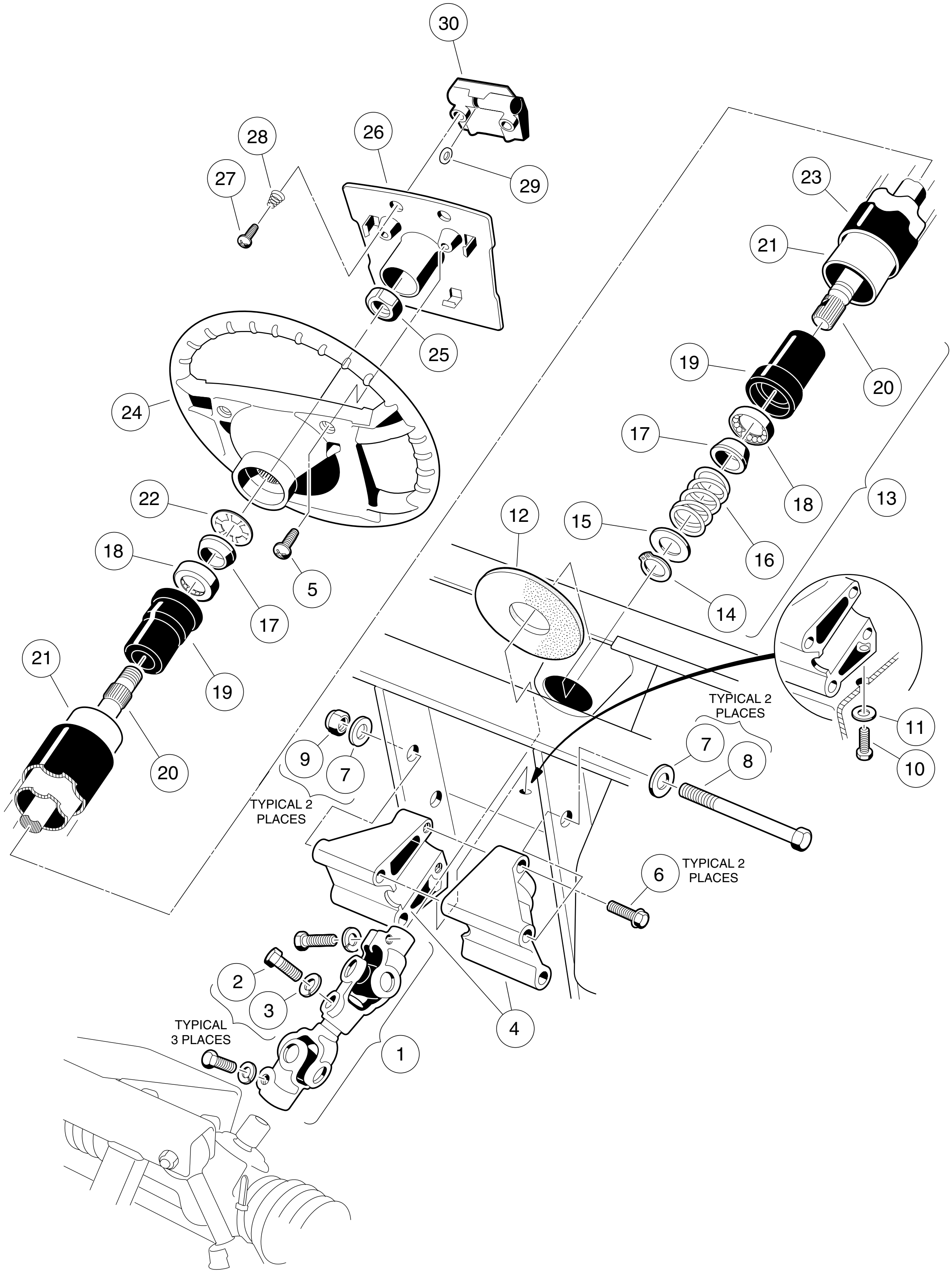
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STEERING, FRONT AND REAR SUSPENSION

5

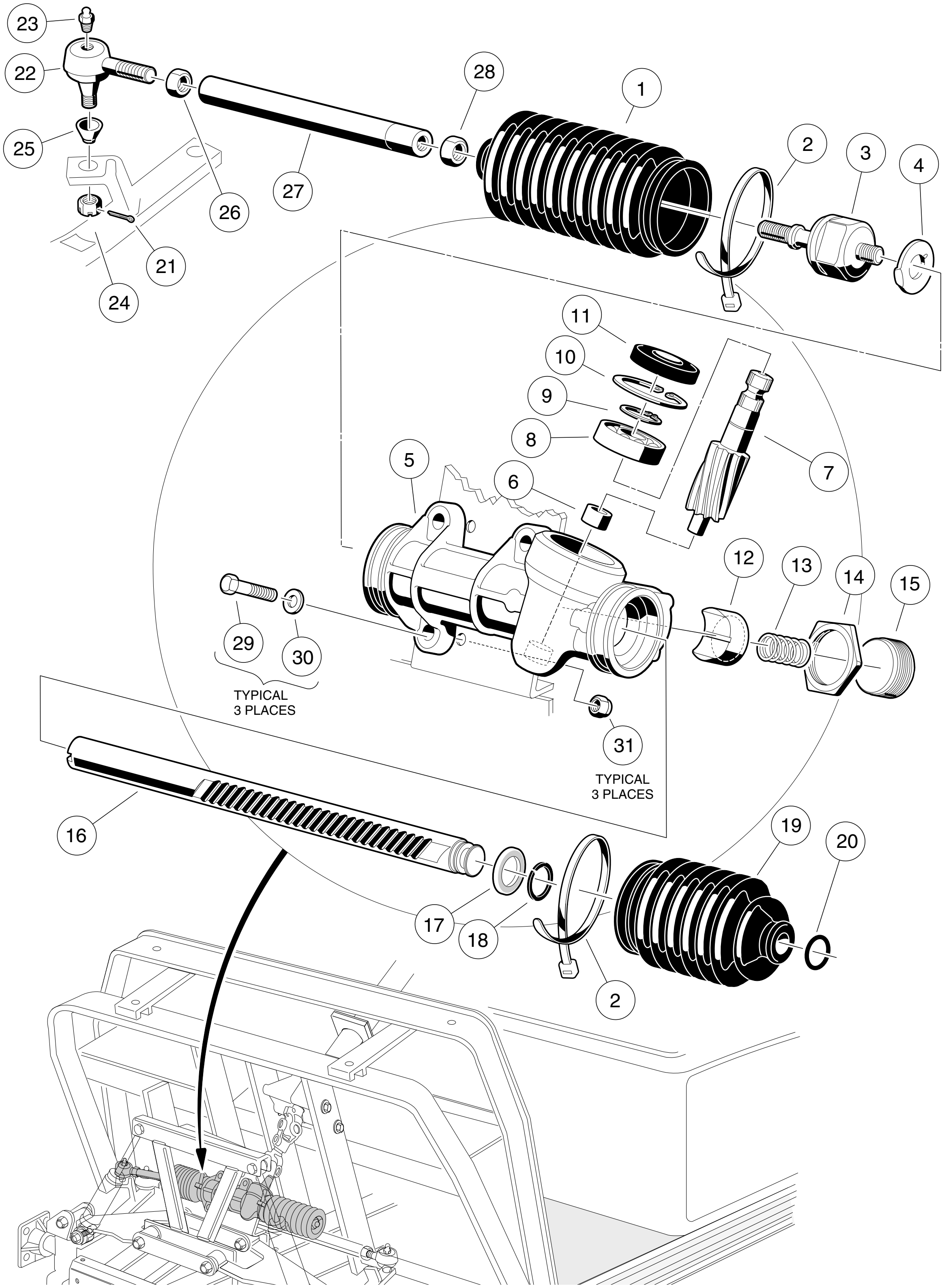
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TYPICAL 2
PLACES
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TYPICAL 2
PLACES
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TYPICAL
3 PLACES
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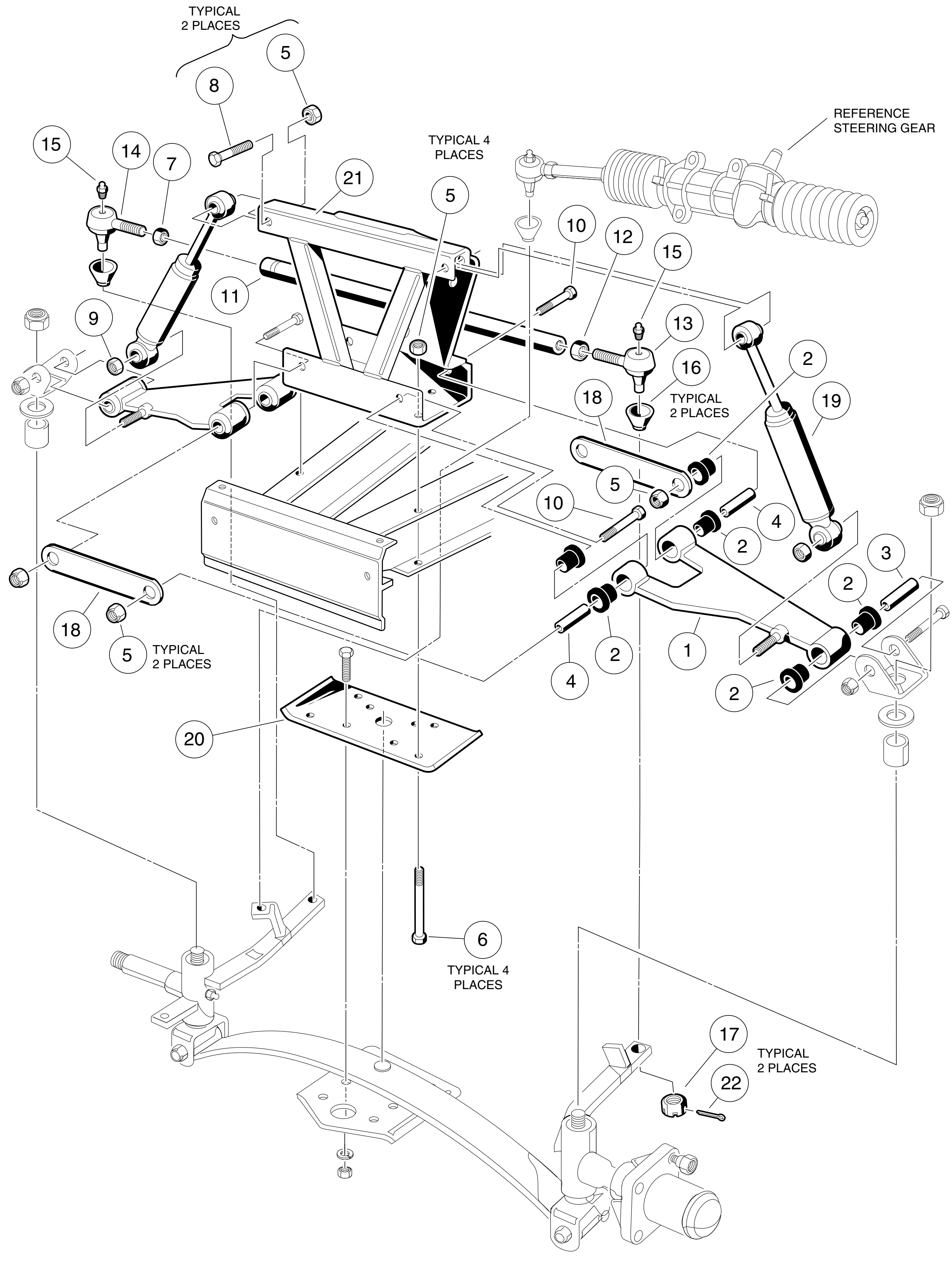
STEERING COLUMN

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1013861	Joint, Compound Steering (includes items 2 and 3)	1
2	1017226	Screw, Hex Head Cap, M8 x 1.25 x 30 mm	3
3	7174	Washer, Lock, 5/16	3
4	101984801	Kit, Steering Column Mounting Bracket	1
5	1016663	Screw, Phillips, Type A, #12-11 x 5/8	2
6	1016269	Screw, Hex Washer Head Thread-Forming, 5/16-18 x 2	2
7	334	Washer, Flat, 3/8	4
8	1016183	Screw, Hex Head Cap, 3/8-16 x 7	2
9	8754	Nut, Nylon Lock, 3/8-16	2
10	1014288	Screw, Hex Washer Head Thread-Forming, 5/16-18 x 3/4	1
11	1011697	Washer, Flat, 5/16	1
12	102278001	Boot, Steering Column	1
13	1016181	Assembly, Steering Column (includes items 14 - 22)	1
14	1012605	Ring, Retaining	1
15	1012604	Washer, Steel, 5/8	1
16	1014217	Spring, Compression	1
17	1014125	Wedge	2
18	1014213	Assembly, Bearing	2
19	1014126	Seat, Bearing	2
20	1015545	Shaft, Steering Column	1
21	1016622	Column, Aluminum Steering	1
22	1014214	Ring, Retaining	1
23	1016263	Cover, Steering Column	1
24	1016156	Wheel, Steering	1
25	1017273	Nut, Nylon Lock, 5/8-18	1
26	1016219	Assembly, Scorecard Plate (includes items 27 - 30)	1
27	1012565	Screw, Round Head, #12-14 x 1	2
28	1012566	Spring, Tapered Compression	2
29	1016214	Grip, Pencil	1
30	1016154	Clip, Scorecard	1
	1014216	Kit, Steering Column Rebuild (not shown)	A/R


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TYPICAL
3 PLACES
31
TYPICAL
3 PLACES
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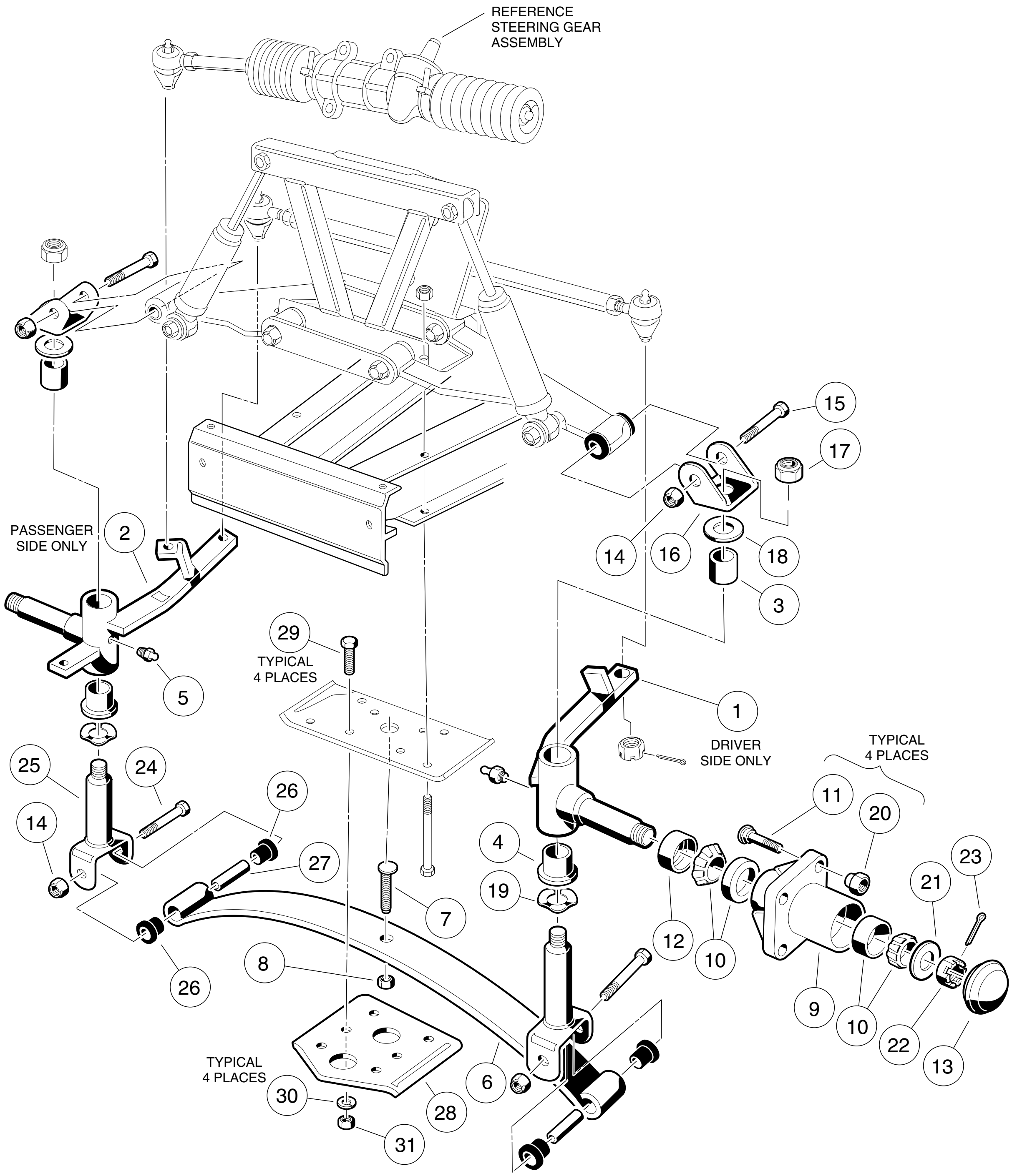
STEERING GEAR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101878302	Assembly, Steering Gear Box (includes items 1 - 20)	1
1	1013035	Seal, Dust, Passenger Side	1
2	8990	Tie, Wire	2
3	101880201	Assembly, Inner Ball Joint	1
4	101880301	Washer, Tab	1
5	N/A	Box, Steering Gear	1
6	N/A	Bearing, Lower Pinion	1
7	N/A	Pinion, Steering	1
8	101879401	Bearing, Upper Pinion	1
9	101879901	Ring, C-Type Stop	1
10	1013051	Ring, Snap	1
11	1013052	Seal, Dust, Steering Pinion	1
12	101879701	Guide, Steering Rack	1
13	101879801	Spring, Yoke	1
14	1013044	Nut, Lock, Rack Screw	1
15	N/A	Screw, Rack Guide	1
16	N/A	Rack, Steering	1
17	101879501	Washer, Stop	1
18	101879601	Ring, C-Type Stop	1
19	101880001	Seal, Dust, Driver Side	1
20	101880101	Ring, Retaining	1
21	1035	Pin, Cotter, 3/32 x 1	1
22	7540	Ball Joint, Left-Hand Thread (includes items 23, 24 and 25)	1
23	1015597	Fitting, Thread-Forming Grease, 1/4-28	1
24	7602	Nut, Hex Slotted, 3/8-24	1
25	1011930	Boot, Dust	1
26	7555	Nut, Hex, Left-Hand Thread, 1/2-20	1
27	1012467	Link, Rack and Pinion Drag	1
28	1013042	Nut, Hex, M12 x 1.75	1
29	1624	Screw, Hex Head Cap, 3/8-16 x 1-1/2	3
30	334	Washer, Flat, 3/8	3
31	8754	Nut, Nylon Lock, 3/8-16	3

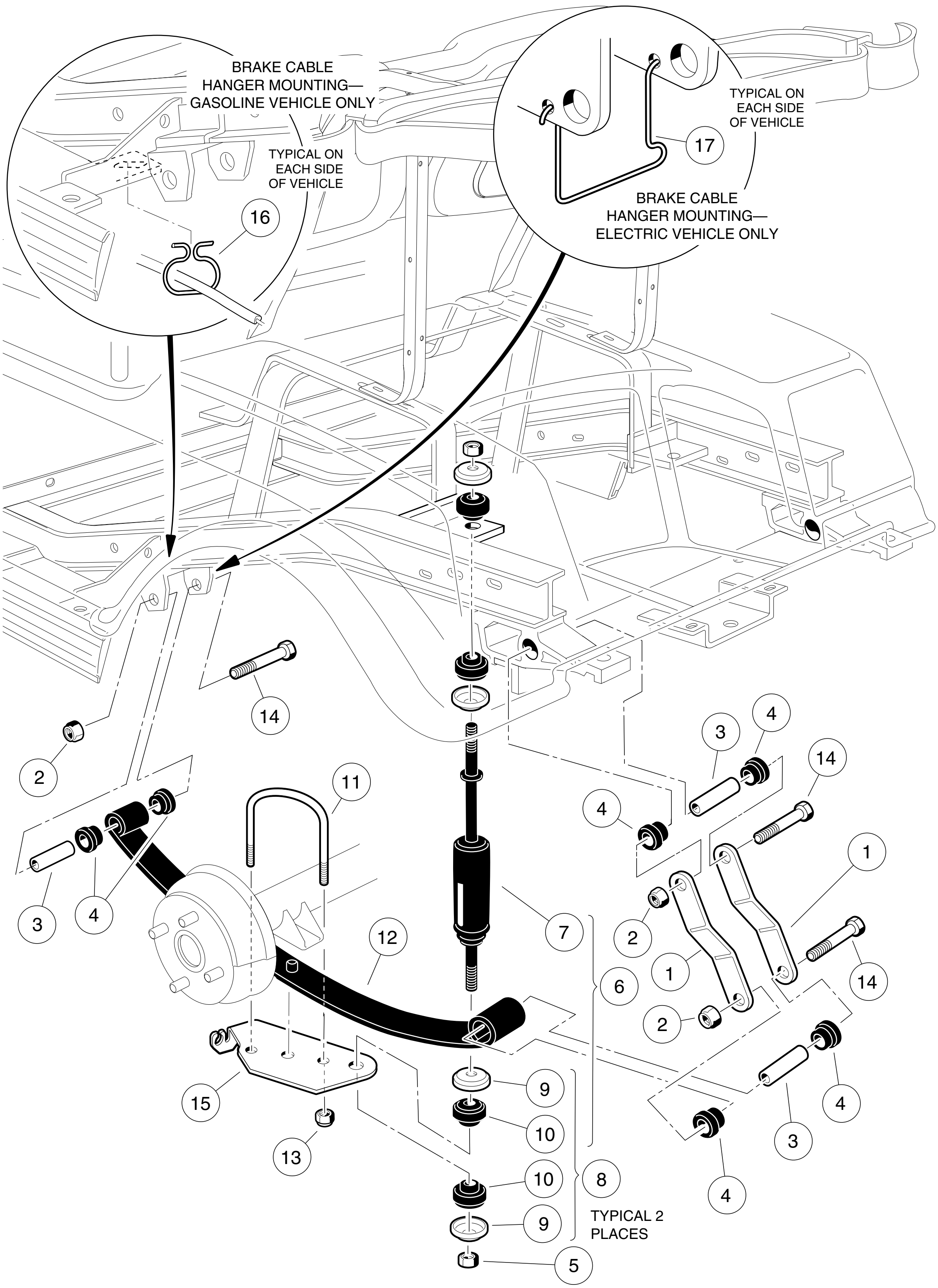

TYPICAL
2 PLACES
5
8
REFERENCE
STEERING GEAR
15
14
7
TYPICAL 4
PLACES
21
5
10
12
15
11
9
13
16
TYPICAL
2 PLACES
18
2
19
5
10
4
2
3
2
18
1
2
4
5
TYPICAL
2 PLACES
2
20
6
TYPICAL 4
PLACES
17
TYPICAL
2 PLACES
22

FRONT SUSPENSION, UPPER

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016353	Assembly, Delta A-Plate (includes items 2, 3 and 4)	2
2	1016346	Bushing, Urethane	6
3	1016350	Sleeve, Delta Outer	1
4	1016349	Sleeve, Delta Inner	2
5	8754	Nut, Nylon Lock, 3/8-16	10
6	1010200	Screw, Hex Head Cap, 3/8-16 x 4-1/4	4
7	1308	Nut, Hex, 1/2-20	1
8	8861	Screw, Hex Head Cap, 3/8-16 x 1-3/4	2
9	1010138	Nut, Dimpled Lock, 3/8-16	2
10	2402	Screw, Hex Head Cap, 3/8-16 x 2-1/4	4
11	1010219	Rod, Tie	1
12	7555	Nut, Hex, Left-Hand Thread, 1/2-20	1
13	7540	Ball Joint, Left-Hand Thread (includes items 15, 16 and 17)	1
14	7539	Ball Joint (includes items 15, 16 and 17)	1
15	1015597	Fitting, Thread-Forming Grease, 1/4-28	1
16	1011930	Boot, Dust	1
17	7602	Nut, Slotted Hex, 3/8-24	1
18	1017266	Strap, A-Plate	1
19	1014235	Shock Absorber, Front	2
20	1010124	Plate, Spring Mounting	3
21	1016385	Assembly, Delta Shock and Gear Support	1
22	1035	Pin, Cotter, 3/32 x 1	3


REFERENCE
STEERING GEAR
ASSEMBLY
PASSENGER
SIDE ONLY
DRIVER
SIDE ONLY
TYPICAL
4 PLACES
TYPICAL
4 PLACES
TYPICAL
4 PLACES
1
2
3
4
5
6
7
8
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10
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ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1010348	Assembly, Spindle, Driver Side (includes items 3, 4 and 5)	1
2	1010347	Assembly, Spindle, Passenger Side (includes items 3, 4 and 5)	1
3	8067	Bushing, Bronze Spindle	1
4	7048	Bushing, Bronze	1
5	1015597	Fitting, Grease, 1/4-28	1
6	1012030	Spring, Tapered Leaf	1
7	8745	Assembly, Eccentric	1
8	706	Nut, Hex, 3/8-16	1
9	1011892	Assembly, Hub (includes items 10 - 13)	2
10	1011393	Package, Hub Bearing	2
11	1011304	Stud, Lug, 1/2-20	4
12	1013135	Seal, Double Lip	1
13	1011887	Cover, Dust	1
14	8754	Nut, Nylon Lock, 3/8-16	4
15	1016387	Screw, Hex Head Cap, 3/8-16 x 2-3/4	2
16	1016384	Clevis, Upper Delta	2
17	101903101	Nut, Nylon Lock, 1/2-20	2
18	1010150	Bearing, Thrust	2
19	1016389	Washer, Kingpin Wave	2
20	1010984	Nut, Lug	8
21	1010005	Washer, Flat, 3/4	2
22	7840	Nut, Hex Slotted, 3/4-16	2
23	7910	Pin, Cotter, 5/32 x 1	2
24	8755	Screw, Hex Head Cap, 3/8 - 16 x 3-3/8	2
25	1016386	Kingpin	2
26	1015583	Bushing, Urethane	4
27	1012303	Bushing, Steel	2
28	1014276	Plate, Front Spring Retainer	1
29	1624	Screw, Hex Head Cap, 3/8-16 x 1-1/2	4
30	357	Washer, Lock, 3/8	4
31	706	Nut, Hex, 3/8-16	4


BRAKE CABLE
HANGER MOUNTING—
GASOLINE VEHICLE ONLY
TYPICAL ON
EACH SIDE
OF VEHICLE
16
TYPICAL ON
EACH SIDE
OF VEHICLE
17
BRAKE CABLE
HANGER MOUNTING—
ELECTRIC VEHICLE ONLY
14
2
3
4
14
4
14
1
11
3
4
12
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14
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15
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9
10
10
8
9
TYPICAL 2
PLACES
5
4
3
4

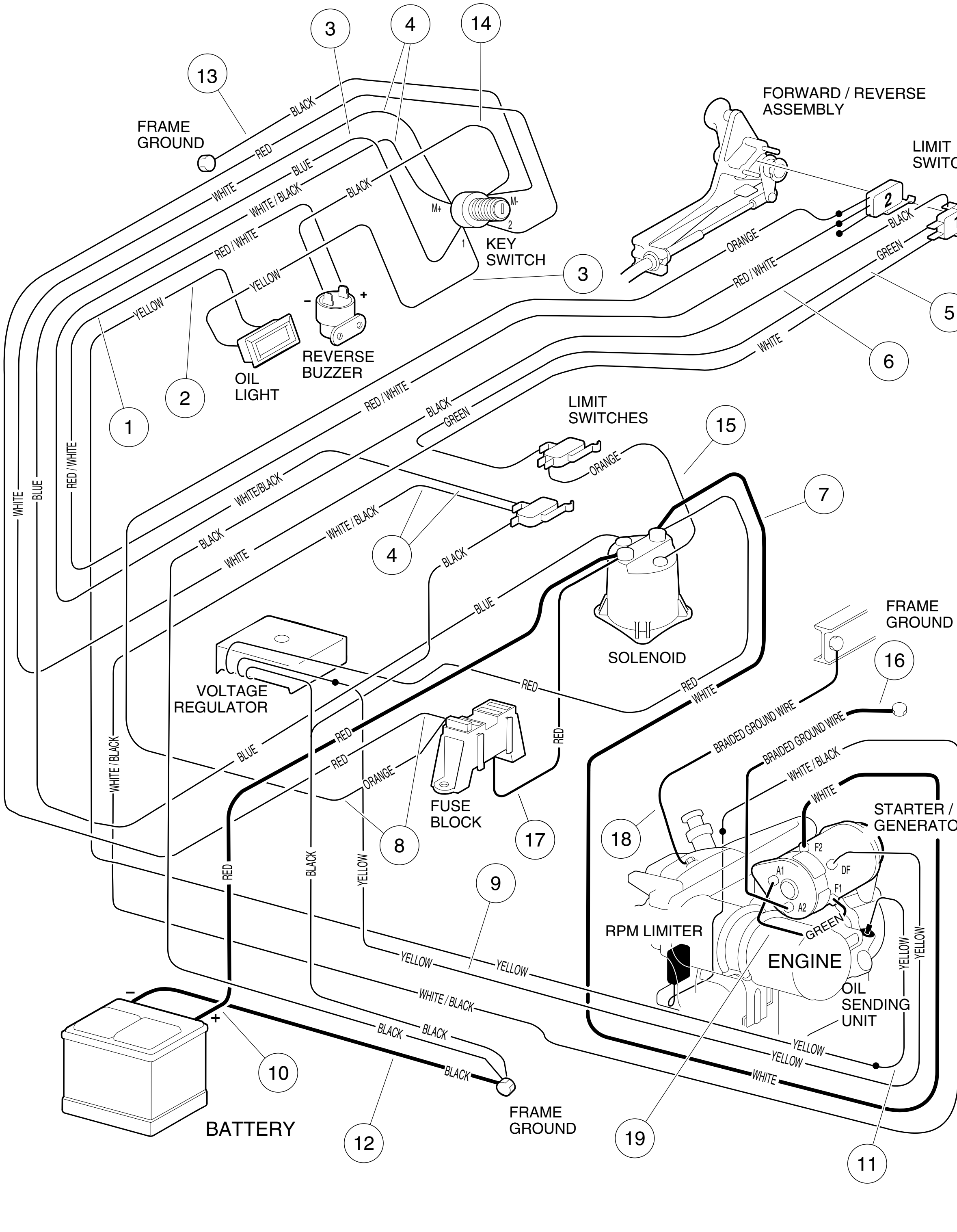
ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
1	1012304	Shackle, Rear Spring (gasoline vehicle)	4	
1	7569	Shackle, Rear Spring (electric vehicle) (not shown)		4
2	8754	Nut, Nylon Lock, 3/8-16	6	6
3	1012303	Bushing, Steel	6	6
4	1015583	Bushing, Urethane	12	12
5	1010145	Nut, UNF Hex, 3/8-24	4	4
6	1013164	Kit, Shock Absorber (includes items 7, 9, and 10)	1	1
7	1014236	Shock Absorber, Rear	2	2
8	1011415	Kit, Shock Absorber Cushion (includes 2 each of items 9 and 10)	4	4
9	N/A	Retainer, Shock Absorber Cushion	8	8
10	N/A	Cushion, Shock Absorber	8	8
11	1012180	U-Bolt	2	2
12	1012324	Spring, Rear Leaf (gasoline vehicle)	2	
12	1010974	Spring, Rear Leaf (electric vehicle)		2
13	1014555	Nut, Nylon Lock, 7/16-24	4	4
14	8755	Screw, Hex Head Cap, 3/8-16 x 3-3/8	6	6
15	1012182	Pad, Spring, Driver Side	1	1
15	1012181	Pad, Spring, Passenger Side	1	1
16	101900801	Hanger, Brake Cable (gasoline vehicle)	2	
17	1013207	Hanger, Brake Cable (electric vehicle)		2

5

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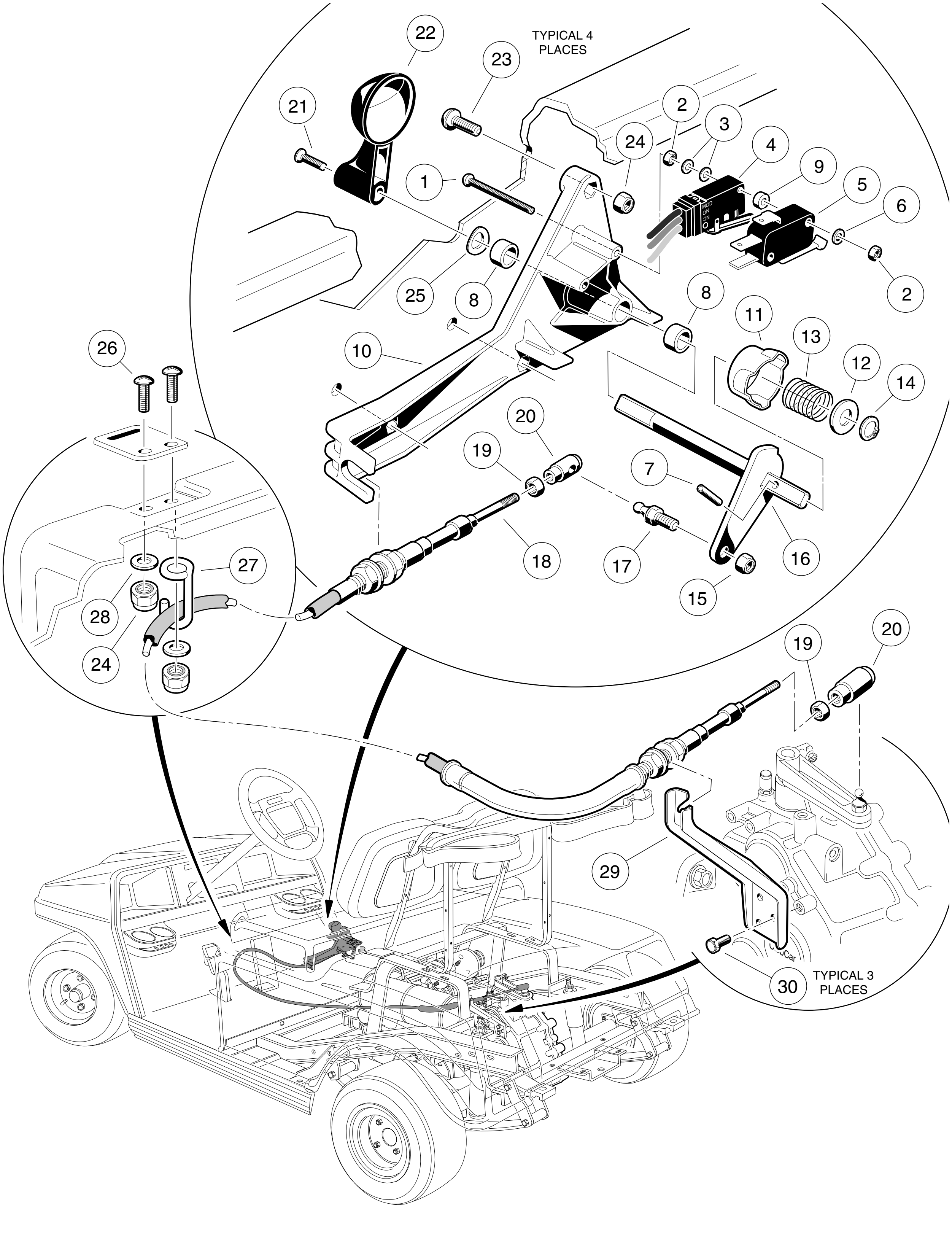
E

ELECTRICAL SYSTEM – GASOLINE VEHICLE


FORWARD / REVERSE ASSEMBLY
LIMIT SWITCHES
FRAME GROUND
KEY SWITCH
OIL LIGHT
REVERSE BUZZER
LIMIT SWITCHES
SOLENOID
VOLTAGE REGULATOR
FUSE BLOCK
FRAME GROUND
STARTER / GENERATOR
RPM LIMITER
ENGINE
OIL SENDING UNIT
BATTERY
FRAME GROUND
BLACK
RED
WHITE
BLUE
WHITE / BLACK
RED / WHITE
YELLOW
ORANGE
GREEN
BRAIDED GROUND WIRE
M+
M-
A1
A2
F1
F2
DF
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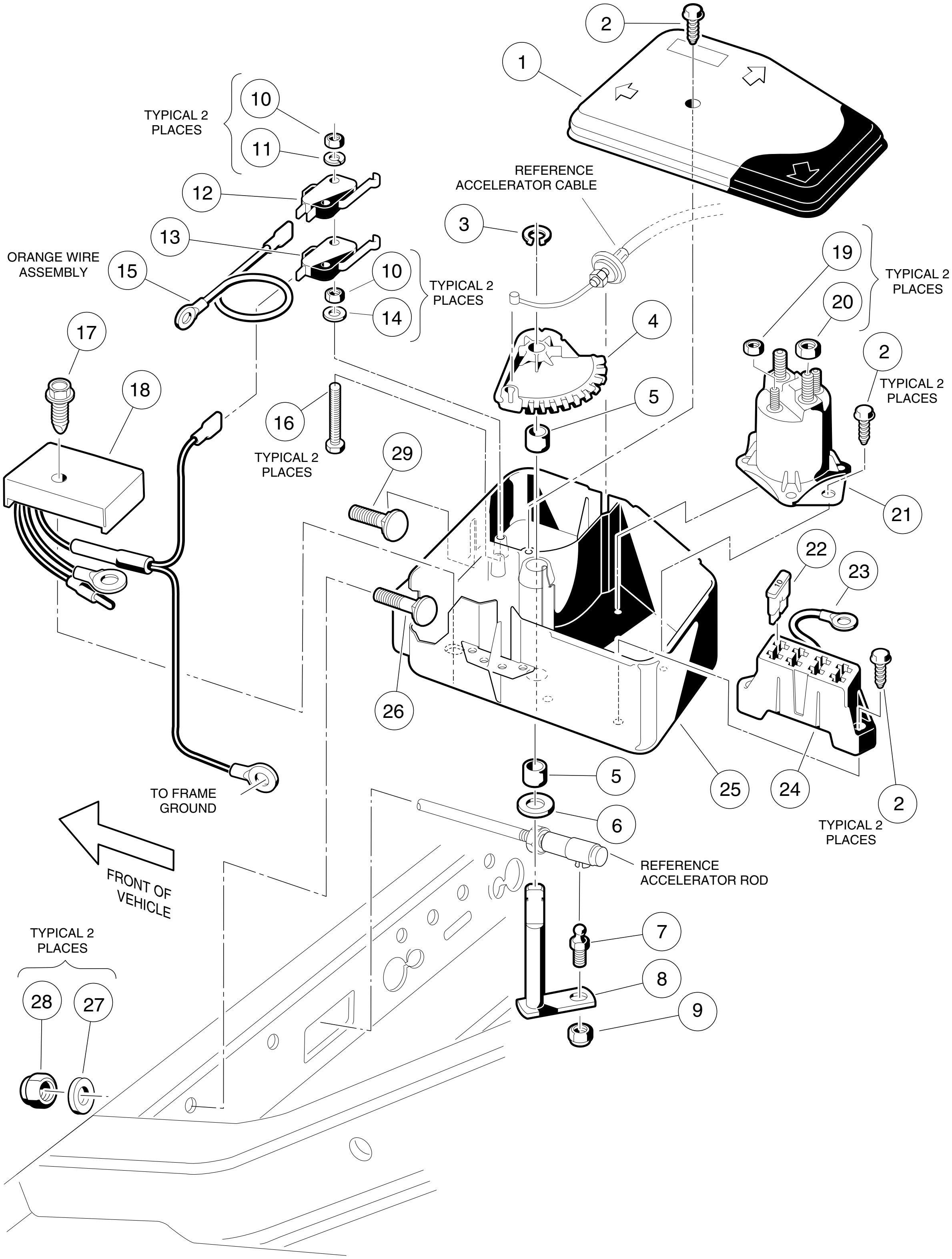
WIRING – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101889302	Wire Harness (includes items 1 - 11)	1
1	N/A	Wire Assembly, #18 Red/White	1
2	N/A	Wire Assembly, #18 Yellow	1
3	N/A	Wire Assembly, #18 Yellow and #16 Blue	1
4	N/A	Wire Assembly, #18 White/Black and #18 White	1
5	N/A	Wire Assembly, #18 Green	1
6	N/A	Wire Assembly, #18 Black	1
7	1015769	Wire Assembly, #6 White	1
8	N/A	Wire Assembly, #16 Red and #16 Orange	1
9	N/A	Wire Assembly, #16 Yellow	1
10	1014119	Wire Assembly, #6 Red	1
11	N/A	Wire Assembly, #18 Yellow	1
12	1012382	Wire Assembly, #6 Black	1
13	N/A	Wire Assembly, #18 Black	1
14	N/A	Wire Assembly, #18 Black (part of reverse buzzer kit)	1
15	N/A	Wire Assembly, #16 Orange (part of the electrical component box)	1
16	1015920	Wire Assembly, #6 Braided Ground	1
17	1015737	Wire Assembly, #10 Red (part of the electrical component box)	1
18	1015332	Wire Assembly, #10 Braided Ground	1
19	101837301	Wire Assembly, #6 Green	1


TYPICAL 4
PLACES
22
23
21
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30
TYPICAL 3
PLACES

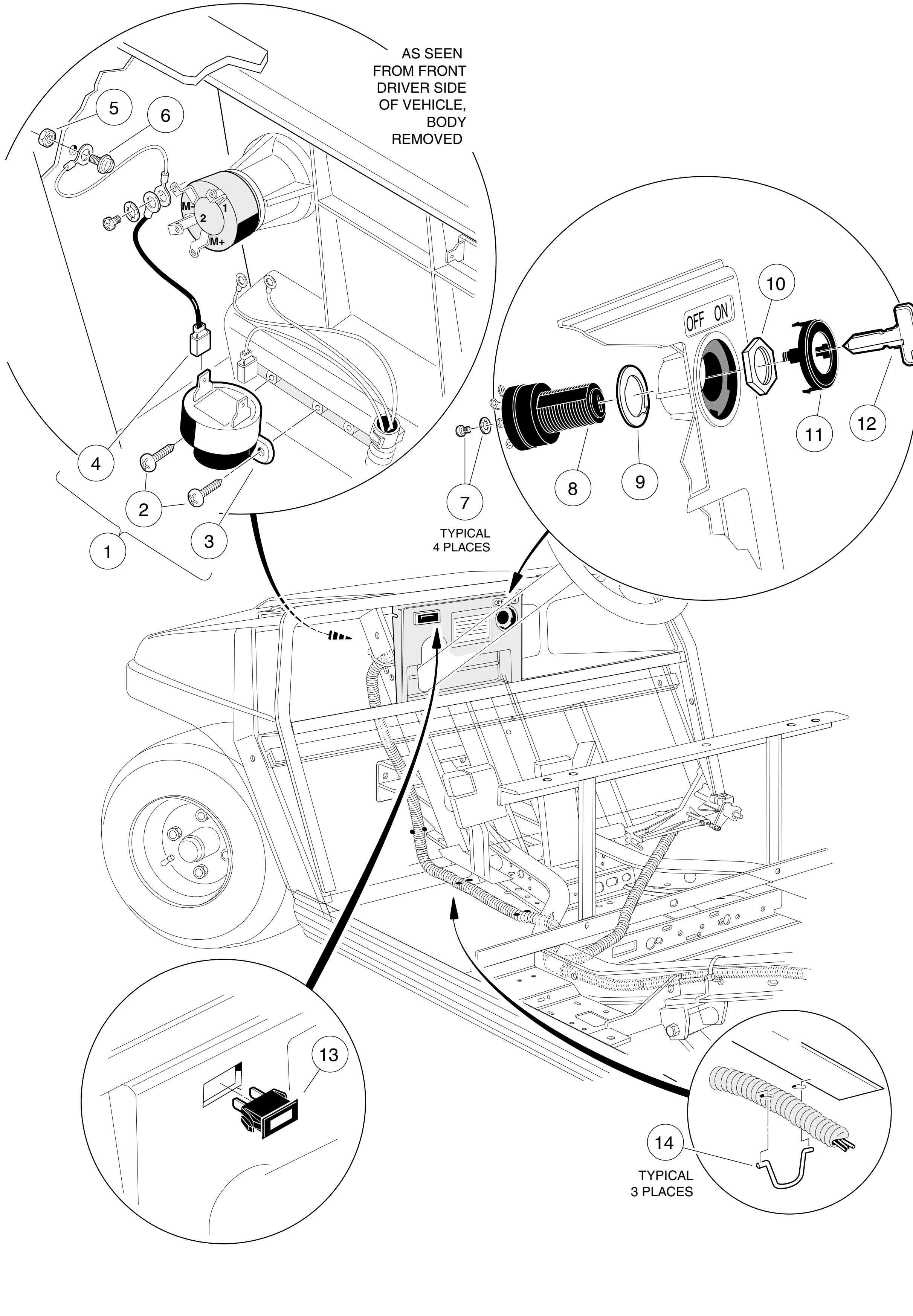
FORWARD/REVERSE SHIFTER ASSEMBLY – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	1016947	Assembly, Forward/Reverse Shifter (includes items 1 - 17)	1
1	1012594	Screw, Machine, #4-40 x 1-1/2	2
2	8057	Nut, Hex Head, #4-40	4
3	1012431	Washer, Flat, #4	4
4	101979101	Switch, Limit	1
5	1014807	Switch, Limit	1
6	8058	Washer, Lock, #4	2
7	1013591	Pin, Roll, 1/8	1
8	1014145	Bushing, Bronze	2
9	1014727	Washer, Nylon Flat, #4	2
10	1016342	Base, Forward/Reverse Shifter	1
11	1014089	Kit, Neutral Lockout Cam (includes item 12)	1
12	1014065	Washer, Flat	1
13	1013590	Spring, Forward/Reverse Cam	1
14	1013589	Ring, Retaining	1
15	8717	Nut, Nylon Lock, 1/4-28	1
16	1013587	Weldment, Forward/Reverse Bell Crank	1
17	1010954	Stud, Ball, 1/4-28 x 1/4	1
18	101951501	Cable, Transmission (includes items 19 and 20)	1
19	7893	Nut, Hex, #10-32	2
20	1012333	Joint, Ball	2
21	1013198	Screw, Phillips Oval Countersunk Machine, #8-32 x 5/8	1
22	1012987	Handle, Forward/Reverse Switch	1
23	8248	Screw, Phillips Truss Head, 1/4-20 x 3/4	4
24	8233	Nut, Nylon Lock, 1/4-20	8
25	1016201	Washer, Wave, 3/8	1
26	8251	Screw, Phillips Head, 1/4-20 x 1	4
27	101855801	Retainer, Cable	1
28	332	Washer, Flat, 1/4	4
29	101922601	Bracket, Transmission Cable Support	1
30	1012285	Screw, Thread Rolling, 1/4-20 x 5/8	3


2
1
TYPICAL 2 PLACES
10
11
REFERENCE ACCELERATOR CABLE
12
3
13
ORANGE WIRE ASSEMBLY
15
10
TYPICAL 2 PLACES
14
19
TYPICAL 2 PLACES
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17
2
TYPICAL 2 PLACES
18
5
16
TYPICAL 2 PLACES
29
21
22
23
26
5
25
24
2
TO FRAME GROUND
6
TYPICAL 2 PLACES
REFERENCE ACCELERATOR ROD
FRONT OF VEHICLE
TYPICAL 2 PLACES
7
8
28
27
9

ELECTRICAL COMPONENT BOX – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101992601	Box, Electrical Component, Complete (includes items 1 - 25)	1
1	1015372	Cover, Electrical Component Box	1
2	1015752	Screw, Hi-Lo, #12-16 x 5/8	5
3	1013589	Ring, Retaining	1
4	1015373	Cam, Electrical Box	1
5	1014145	Bushing, Bronze	2
6	1014065	Washer, Flat	1
7	1010954	Stud, Ball, 1/4-28	1
8	101821301	Assembly, Bell Crank and Shaft	1
9	8717	Nut, Nylon Lock, 1/4-28	1
10	8057	Nut, Hex, #4-40	4
11	8058	Washer, Lock, #4	2
12	1014807	Switch, Limit	1
13	1014808	Switch, Limit	1
14	1012431	Washer, Flat, #4	2
15	N/A	Wire Assembly, #16 Orange	1
16	1015878	Screw, Hex Head Machine, #4-40 x 1-5/8	2
17	101856102	Screw, Hex Washer Head Hi-Lo, 1/4-15 x 1-1/2	1
18	1015777	Assembly, Voltage Regulator	1
19	7893	Nut, Hex, #10-32	2
20	1242	Nut, Hex, 5/16-18	2
21	1013609	Solenoid, 12-Volt	1
22	1012295	Fuse, 10-Amp	1
23	1015737	Wire Assembly, #10 Red	1
24	1015741	Block, Fuse	1
25	1015371	Box, Electrical Component	1
26	1015405	Screw, Round-Head Square-Neck, 5/16-18 x 2	1
27	1241	Washer, Flat, 5/16	2
28	7473	Nut, Nylon Lock, 5/16-18	2
29	7818	Screw, Round-Head Square-Neck, 5/16-18 x 1-1/2	1

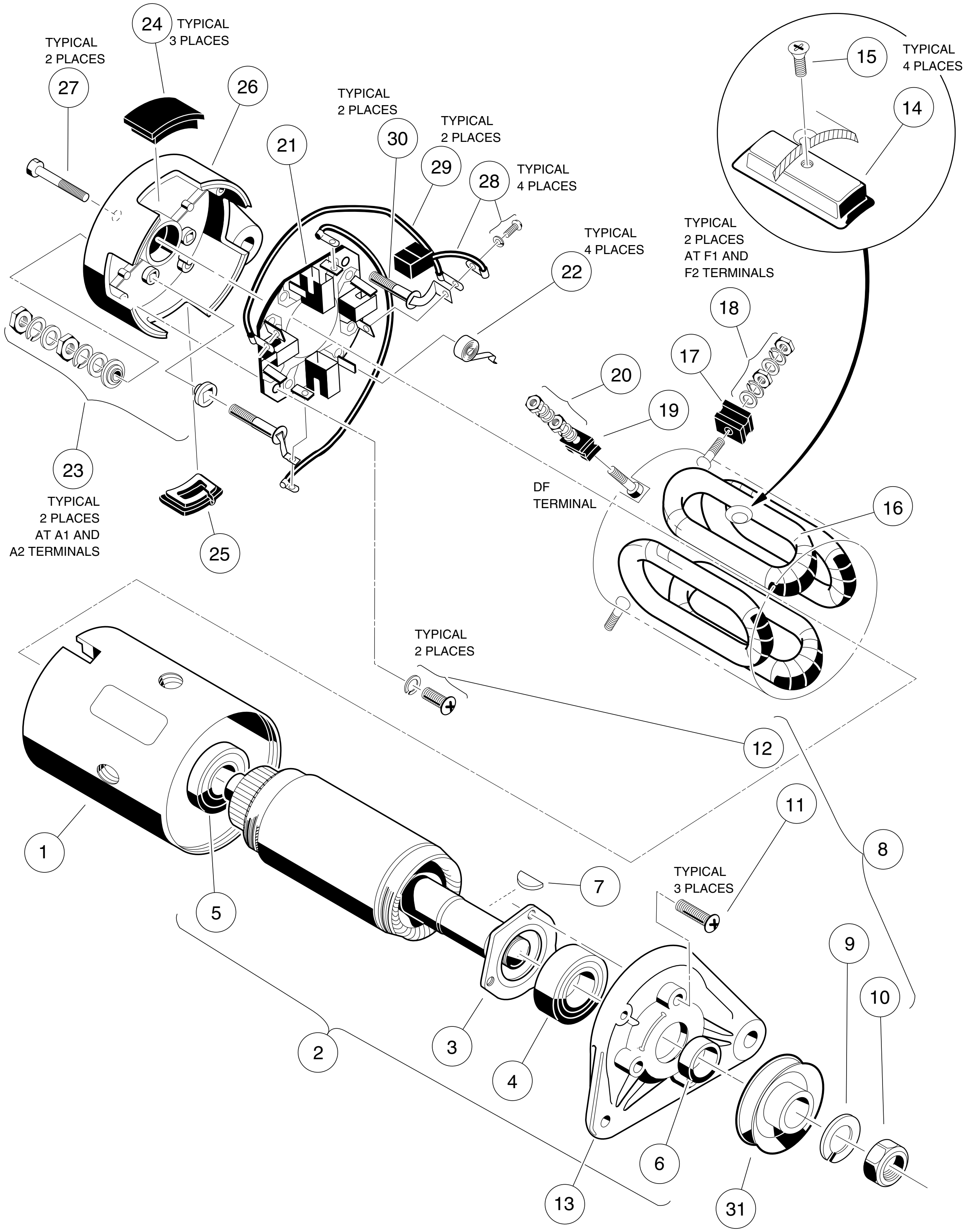

AS SEEN
FROM FRONT
DRIVER SIDE
OF VEHICLE,
BODY
REMOVED
5
6
M-
2
1
M+
4
2
3
1
OFF ON
10
12
11
9
8
7
TYPICAL
4 PLACES
13
14
TYPICAL
3 PLACES

ELECTRICAL COMPONENTS, FRONT BODY – GASOLINE VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016859	Kit, Reverse Buzzer (includes items 2, 3 and 4)	1
2	1016849	Screw, Pan Head Hi-Lo, #4-24 x 5/16	2
3	1016851	Buzzer, Reverse	1
4	N/A	Wire Assembly, #18 Black	1
5	1011229	Nut, K Lock, #6-32	1
6	1015720	Screw, Hex Washer Head, #6-32 x 1/2	1
7	101830601	Assembly, Screw and Washer	4
8	101826301	Switch, Key	1
9	101851101	Washer	1
10	101830701	Nut, Key Switch	1
11	101834502	Cap, Key Switch (black)	1
12	1012505	Key (pair)	1
13	1016630	Light, Oil Warning	1
14	101900901	Retainer, Harness	3

6

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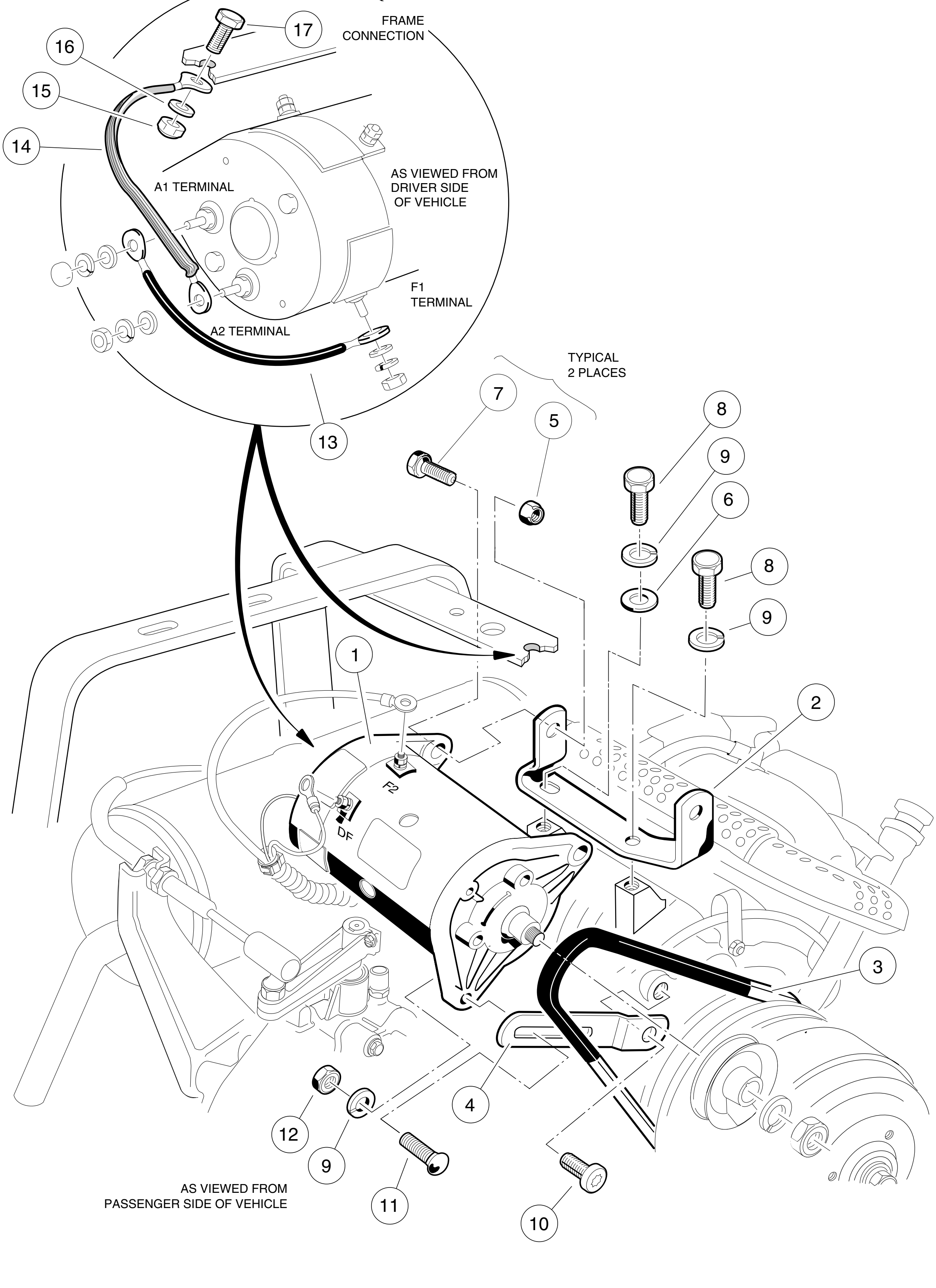
24
TYPICAL
3 PLACES
TYPICAL
2 PLACES
27
26
TYPICAL
2 PLACES
30
21
TYPICAL
2 PLACES
29
28
TYPICAL
4 PLACES
15
TYPICAL
4 PLACES
14
TYPICAL
4 PLACES
22
TYPICAL
2 PLACES
AT F1 AND
F2 TERMINALS
18
17
20
19
23
TYPICAL
2 PLACES
AT A1 AND
A2 TERMINALS
25
DF
TERMINAL
16
TYPICAL
2 PLACES
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1
8
7
TYPICAL
3 PLACES
5
9
10
3
2
4
6
13
31

STARTER/GENERATOR ASSEMBLY

6

G

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101833701	Starter/Generator (clockwise rotation) (includes items 1 - 30)	1
1	101875201	Housing, Field Coil	1
2	101875101	Assembly, Armature (includes items 3 - 6)	1
3	101875001	Retainer, Bearing	1
4	1013001	Ball Bearing, Output Shaft	1
5	1013005	Commutator, Ball Bearing	1
6	101939901	Spacer, 5/16	1
7	1013003	Key, Woodruff	1
8	101876501	Kit, Pulley Nut and Screw (includes items 9 - 12)	1
9	N/A	Washer, Lock, M14	1
10	N/A	Nut, Hex, M14 x 2	1
11	N/A	Screw, Cross-Recessed, M5 x .8 x 18 mm	3
12	101896501	Screw, Cross-Recessed, M5 x .8 x 16 mm (with lock washer)	2
13	101874901	End Bell, Output Shaft	1
14	101875301	Set, Pole (set of 4)	1
15	101875401	Screw, Pole Piece (set of 4)	1
16	101875501	Coil, Field	1
17	101875601	Insulator, F Terminal	2
18	101877601	Package, Terminal Hardware (F1 and F2)	2
19	101875701	Insulator, DF Terminal	1
20	101877701	Package, Terminal Hardware (DF)	1
21	101301102	Holder, Brush (includes item 22)	1
22	101878101	Spring, Brush	4
23	101876001	Package, Terminal Hardware (A1 and A2)	2
24	101876301	Cover, Brush Inspection Port (Set of 4) (includes item 25)	1
25	1017653	Cover, Brush Inspection Port, with Drain	1
26	101876402	End Bell, Commutator	1
27	101879001	Bolt, Clamp, M6 x 1 x 180 mm	2
28	101869302	Package, Brush (includes 4 brushes, 4 screws, 4 washers)	1
29	101876202	Connector, Brush	2
30	101875802	A Connector (set of 2)	1
31	1014289	Pulley	1

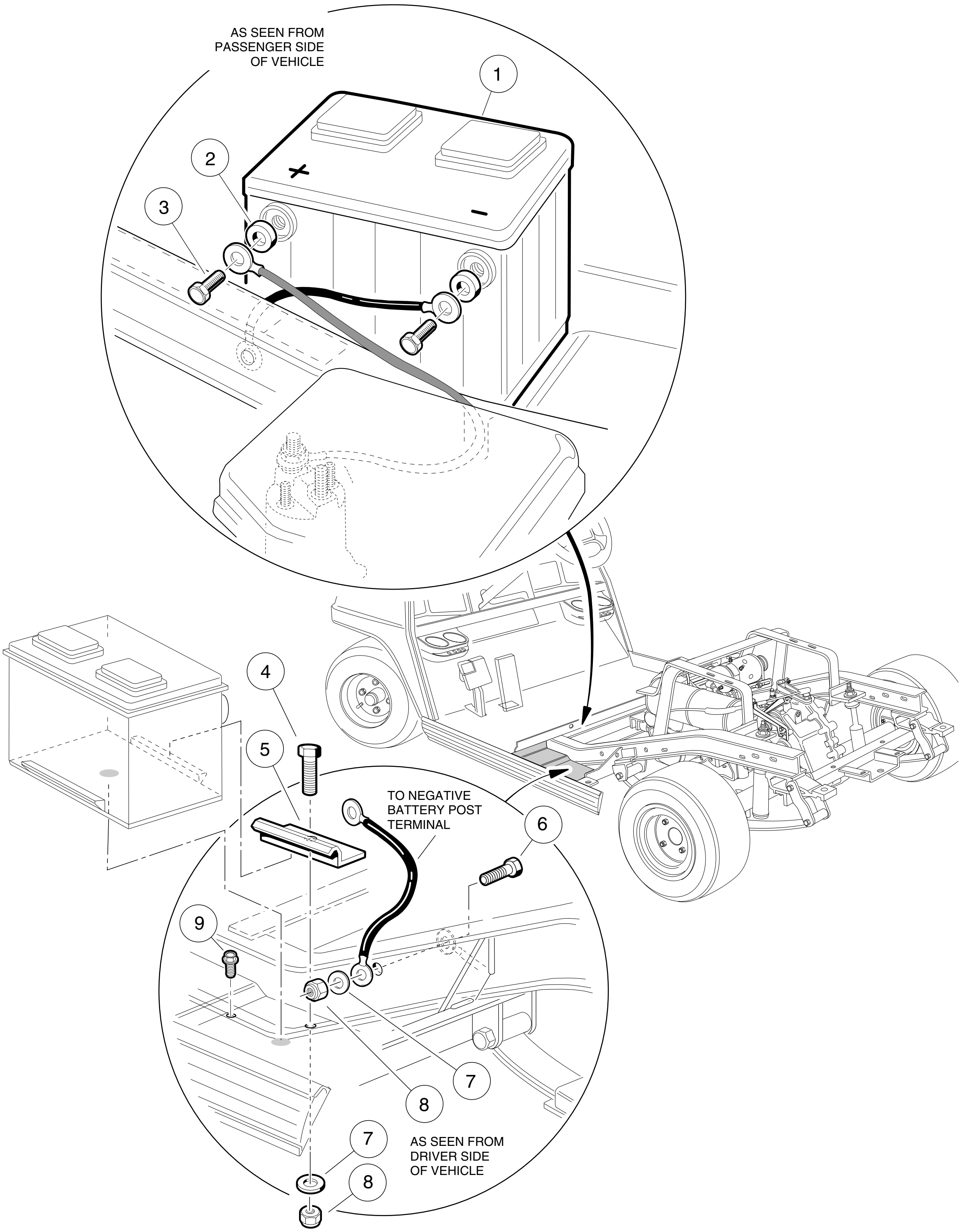

17
16
FRAME
CONNECTION
15
14
A1 TERMINAL
AS VIEWED FROM
DRIVER SIDE
OF VEHICLE
F1
TERMINAL
A2 TERMINAL
TYPICAL
2 PLACES
7
5
8
9
6
13
8
9
1
2
F2
DF
3
4
12
9
11
10
AS VIEWED FROM
PASSENGER SIDE OF VEHICLE

STARTER/GENERATOR MOUNTING

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101833701	Starter/Generator (clockwise rotation)	1
2	101524001	Bracket, Mounting, FE290	1
3	101916701	Belt, Starter/Generator	1
4	1016883	Bracket, Adjusting	1
5	8754	Nut, Nylon Lock, 3/8-16	2
6	1015075	Washer, Flat, 5/16	1
7	705	Screw, Hex Head Cap, 3/8-16 x 1-1/4	2
8	1012830	Screw, Hex Head Cap, M8 x 1.25 x 22 mm	2
9	7174	Washer, Lock, 5/16	3
10	1016074	Screw, Torx Head, M8 x 1.25 x 18 mm	1
11	1015932	Screw, Round-Head Square-Neck, 5/16-18 x 1	1
12	1242	Nut, Hex, 5/16-18	1
13	101837301	Wire Assembly, #6 Green	1
14	1015920	Wire Assembly, #6 Braided Ground	1
15	7473	Nut, Nylon Lock, 5/16-18	1
16	1241	Washer, Flat, 5/16	1
17	7173	Screw, Hex Head Cap, 5/16-18 x 3/4	1

6

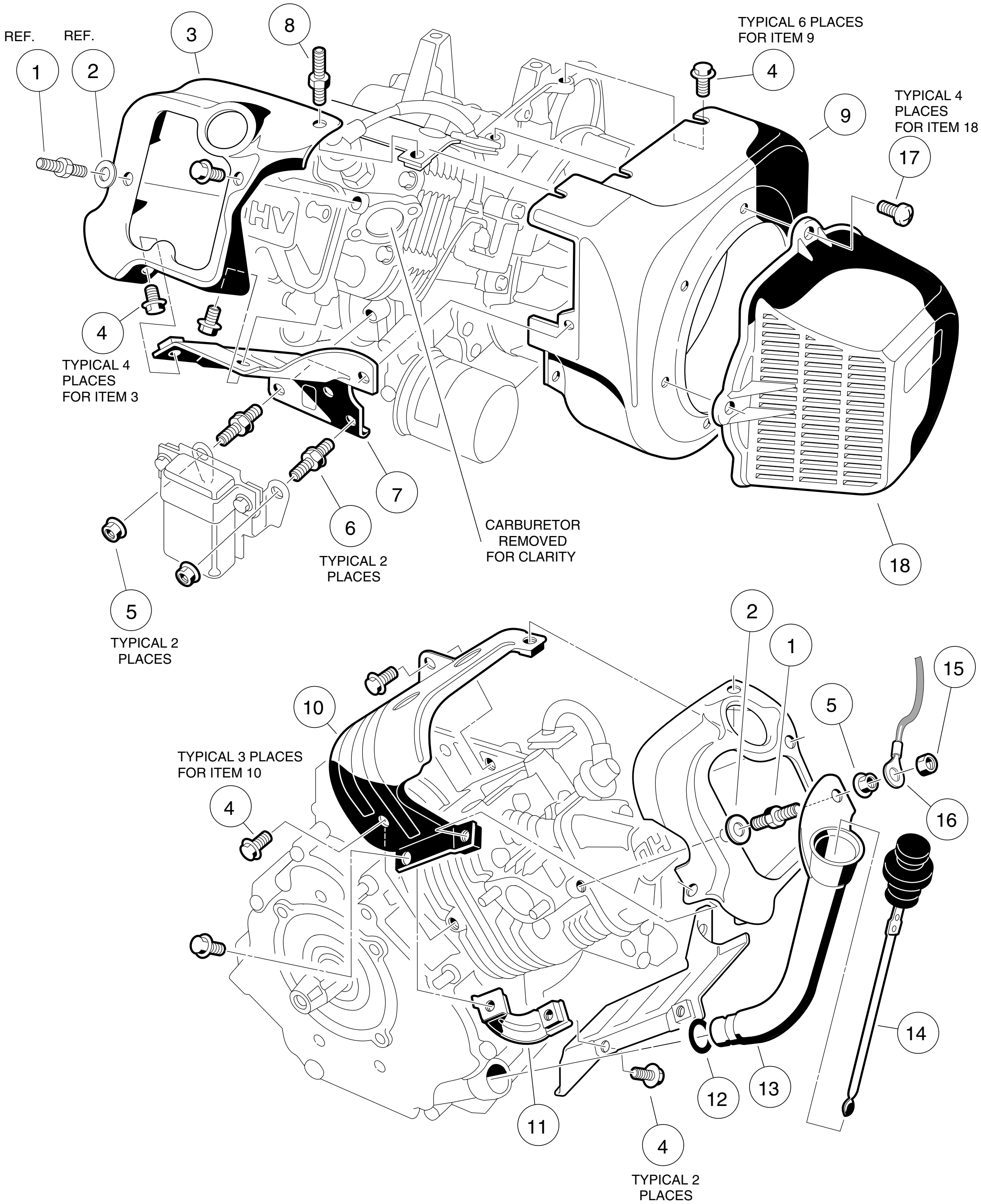
G


AS SEEN FROM
PASSENGER SIDE
OF VEHICLE
1
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TO NEGATIVE
BATTERY POST
TERMINAL
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9
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8
7
8
AS SEEN FROM
DRIVER SIDE
OF VEHICLE

BATTERY – GASOLINE VEHICLE

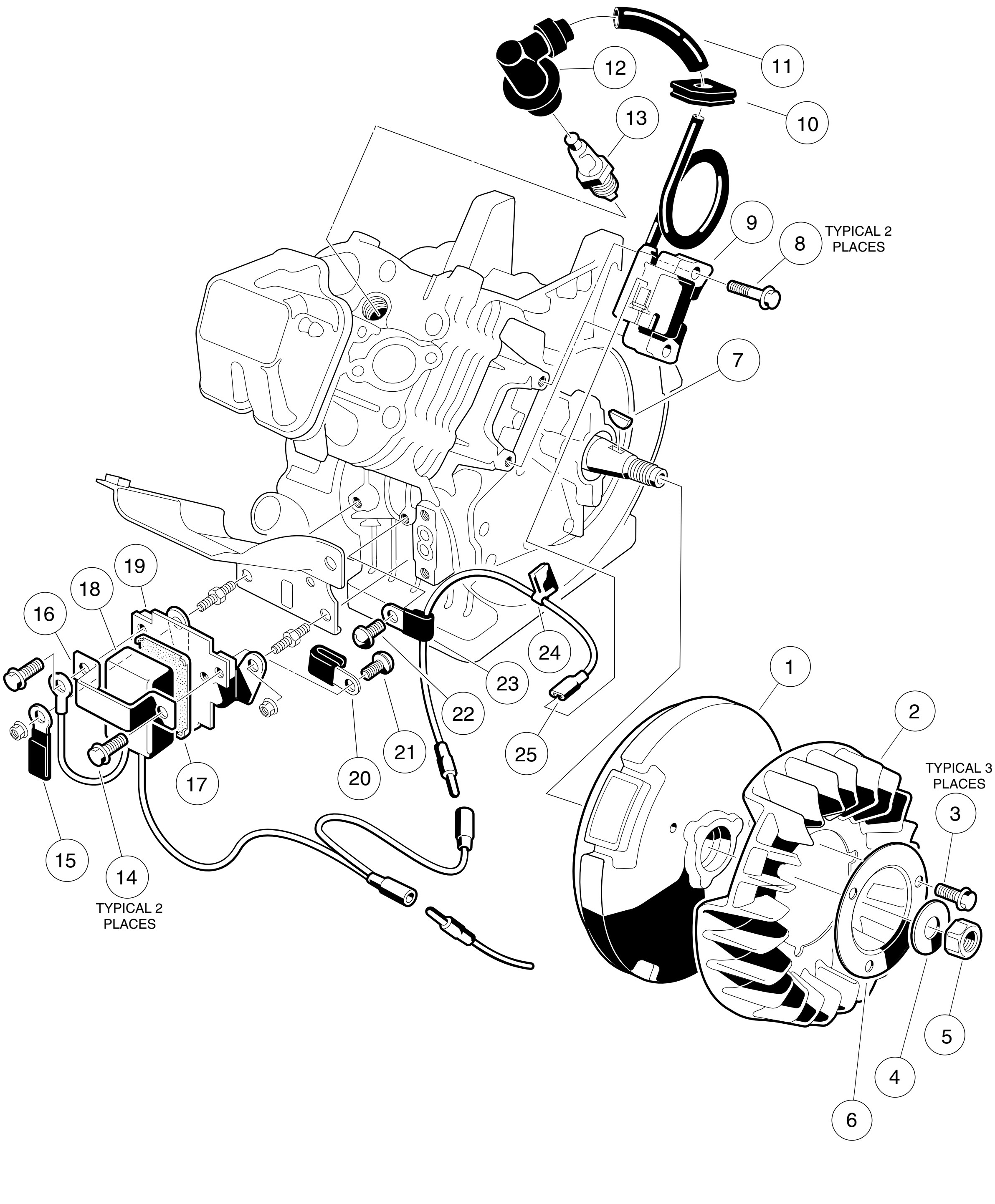
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1012328	Battery, 12-Volt	1
2	1014374	Spacer, Battery Terminal Bolt	2
3	1014375	Screw, Hex Head Cap, Stainless Steel, 3/8-16 x 1/2	2
4	1010934	Screw, Hex Head Cap, 5/16-18 x 1	1
5	101898001	Clamp, Battery	1
6	7173	Screw, Hex Head Cap, 5/16-18 x 3/4	1
7	1241	Washer, Flat, 5/16	2
8	7473	Nut, Nylon Lock, 5/16-18	2
9	1014288	Screw, Thread-Forming, 5/16-18 x 3/4	1

FE290 ENGINE


REF.
REF.
1
2
3
8
TYPICAL 6 PLACES
FOR ITEM 9
4
9
TYPICAL 4
PLACES
FOR ITEM 18
17
4
TYPICAL 4
PLACES
FOR ITEM 3
7
6
TYPICAL 2
PLACES
CARBURETOR
REMOVED
FOR CLARITY
18
5
TYPICAL 2
PLACES
2
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TYPICAL 3 PLACES
FOR ITEM 10
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TYPICAL 2
PLACES

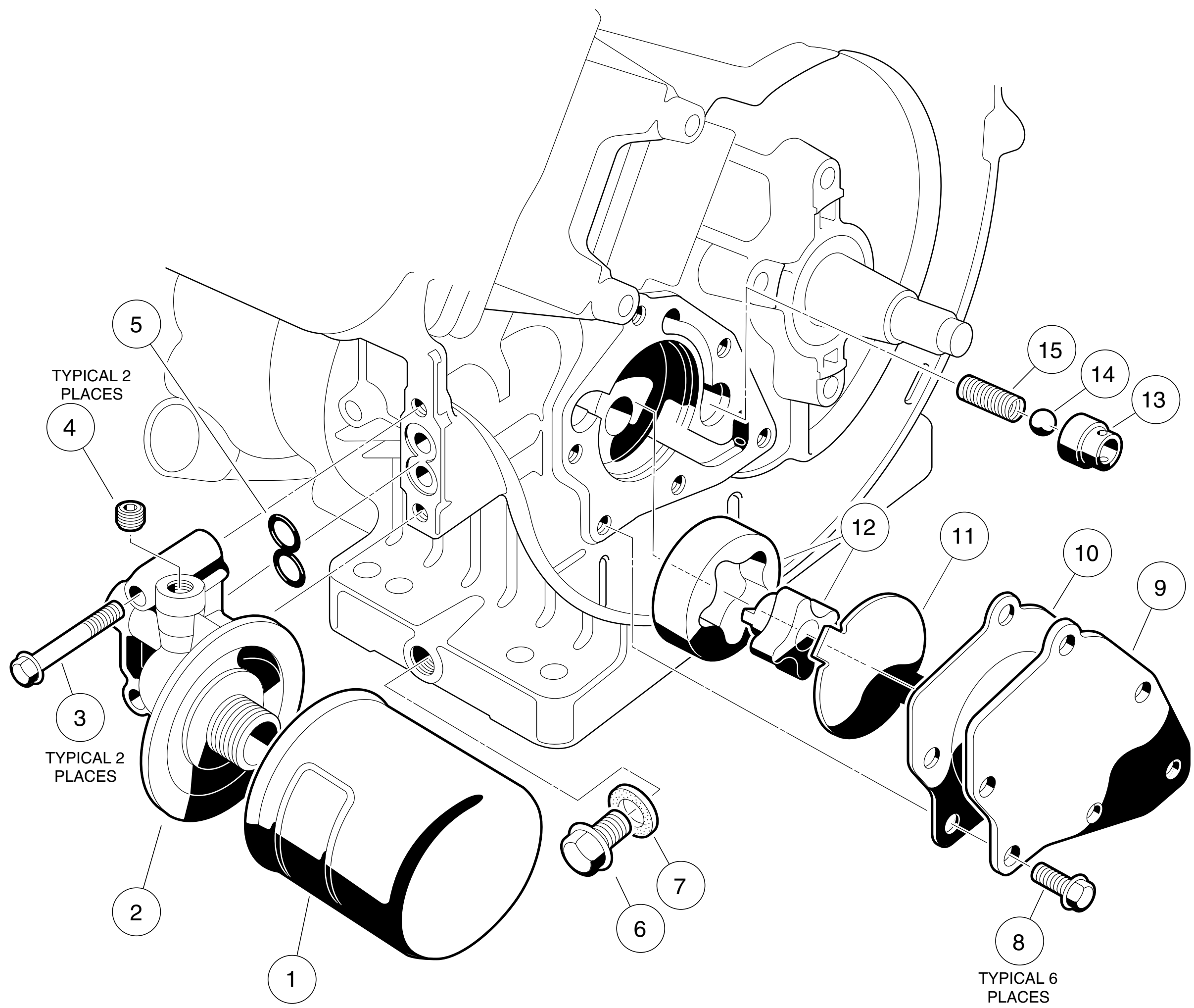
FE290 ENGINE – SHROUDS AND BRACKETS

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101953901	FE290 OHV Gasoline Engine (clockwise rotation) with Carburetor (does not include items 15 through 18)	1
1	1016507	Bolt, 2-Ended, M6 x 1 x 29 mm	1
2	1016512	Washer, Flat, 6 mm	1
3	1016524	Shroud, Engine, FE290	1
4	1016456	Bolt, Flanged, M6 x 1 x 12 mm	15
5	1016547	Nut, Flange, M6 x 1	3
6	101909701	Bolt, 2-Ended, M6 x 1 x 27 mm	2
7	1016526	Shroud, Engine, FE290 (lower)	1
8	1017221	Bolt, 2-Ended, M6 x 1 x 46 mm	1
9	101915601	Housing, Fan	1
10	1016525	Shroud, Engine, FE290 (Upper)	1
11	1016443	Bracket	1
12	1016539	O-Ring	1
13	1016536	Tube, Oil Filler, FE290	1
14	1016531	Dipstick	1
15	101887601	Nut, Nylon Lock, M6 x 1	1
16	1015332	Wire Assembly, #10 Braided Ground	1
17	1015969	Screw, Pan Head, M6 x 1 x 14 mm	4
18	1015649	Shroud, Fan	1


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TYPICAL 3 PLACES
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TYPICAL 2 PLACES
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FE290 ENGINE – IGNITION COMPONENTS AND FLYWHEEL

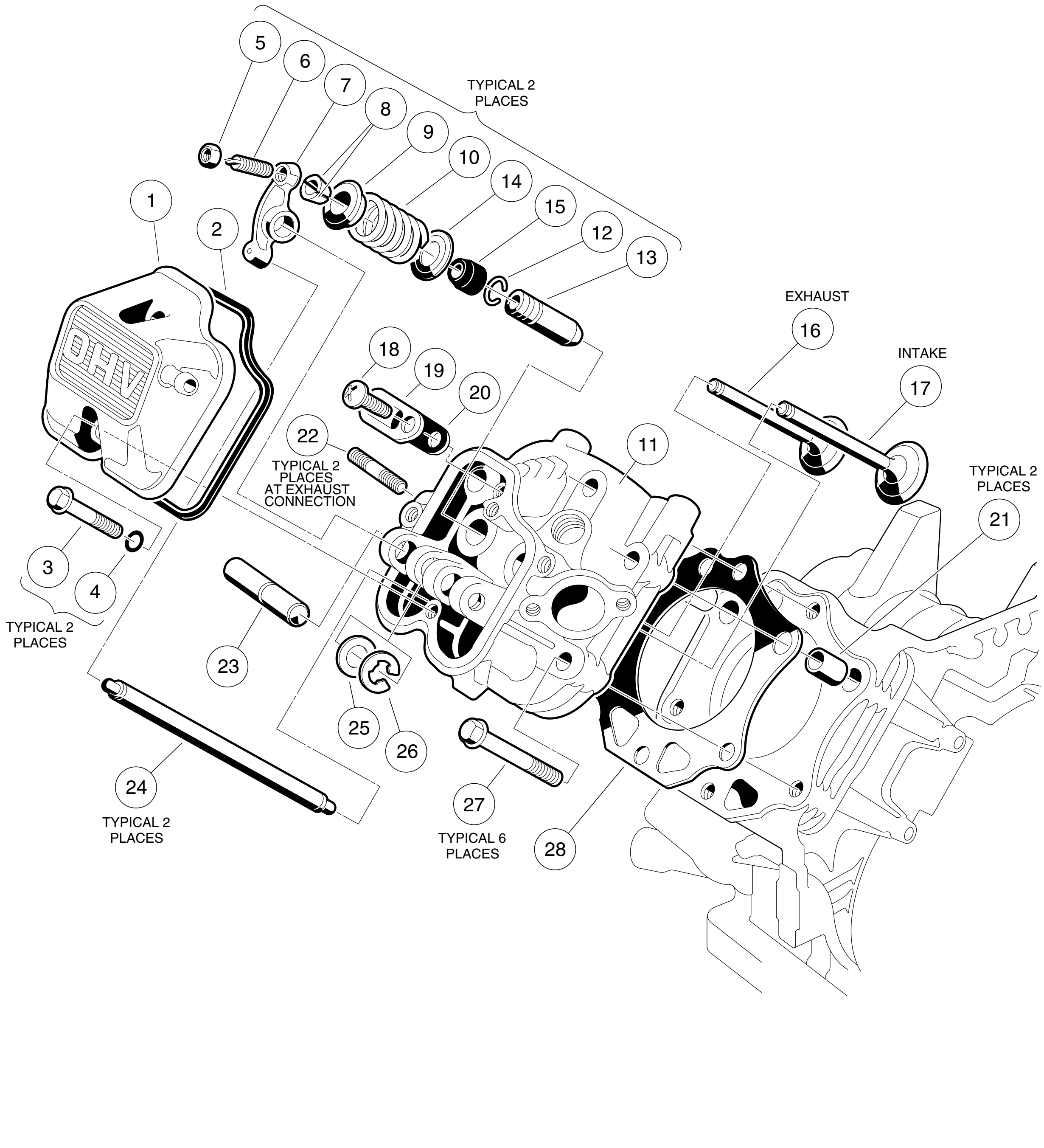
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101915701	Flywheel	1
2	101915801	Fan, Flywheel, Gray	1
3	1017448	Screw, Flanged Hex Head, M6 x 1 x 10 mm	3
4	1016548	Washer, Flat, 16 mm	1
5	1016505	Nut, Hex, M16 x 1.5	1
6	1017455	Plate, Flywheel Fan	1
7	1016562	Key	1
8	1016455	Bolt, Flanged, M5 x.8 x 25 mm	2
9	101909201	Coil, Ignition (with internal igniter)	1
10	1016578	Grommet	1
11	1016588	Tube, 7 mm x 70 mm	1
12	1016493	Assembly, Plug Cap	1
13	101881101	Plug, Spark, OHV	1
14	1016456	Bolt, Flanged, M6 x 1 x 12 mm	2
15	1012981	Clamp	1
16	1016579	Band, RPM Limiter Mount	1
17	1016586	Damper, RPM Limiter	1
18	101909401	Limiter, RPM, OHV	1
19	1016445	Bracket, RPM Limiter	1
20	101909501	Clamp	1
21	1016497	Screw, Cross Pan Head, M5 x.8 x 8 mm	1
22	1016544	Screw, Cross Pan Head Self-Tapping, M5 x.8 x 12 mm	1
23	1016561	Clamp	1
24	1016587	Clamp	1
25	101909301	Wire, Lead	1


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TYPICAL 2
PLACES
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TYPICAL 2
PLACES
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TYPICAL 6
PLACES

FE290 ENGINE – OIL CIRCULATION

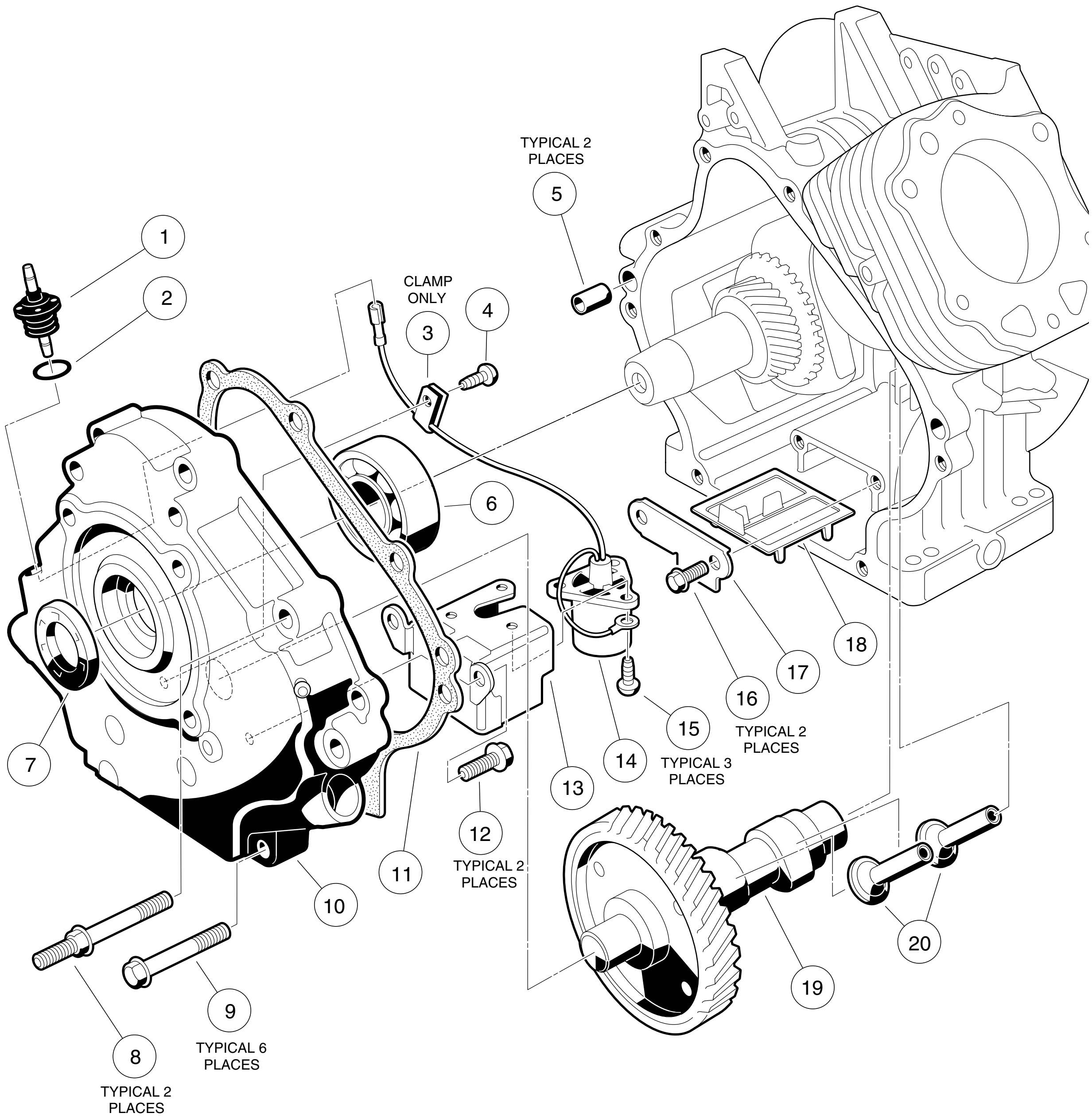
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ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016467	Oil Filter	1
2	1016502	Bracket, Oil Filter	1
3	1016457	Bolt, Flanged Hex Head, M6 x 1 x 40 mm	2
4	1017507	Plug	2
5	1016570	O-Ring, Oil Filter Mount	1
6	1016576	Plug, Drain, FE290	1
7	1016432	Gasket, Drain Plug	1
8	1017456	Screw, Flanged Hex Head, M6 x 1 x 12 mm	6
9	1016484	Cover, Pump	1
10	1016435	Gasket, Oil Pump	1
11	1016473	Plate, Oil Pump	1
12	101648203	Pump, Oil and Rotor	1
13	1016429	Seat, Valve	1
14	1016537	Ball, Steel, Pressure Relief	1
15	1016581	Spring	1


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TYPICAL 2
PLACES
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TYPICAL 2
PLACES
OHV
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TYPICAL 2
PLACES
AT EXHAUST
CONNECTION
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EXHAUST
16
INTAKE
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TYPICAL 2
PLACES
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TYPICAL 2
PLACES
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TYPICAL 6
PLACES
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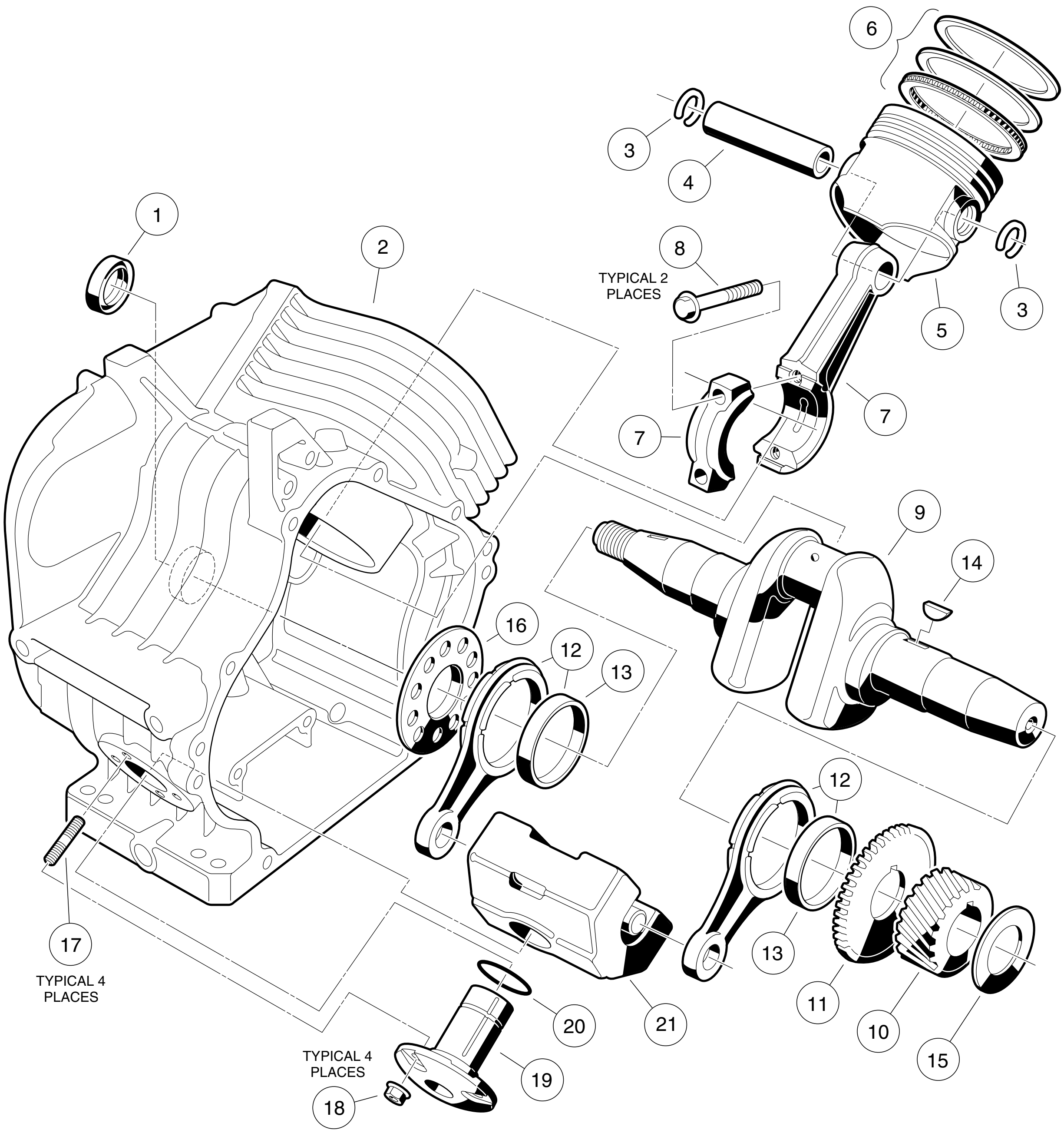
FE290 ENGINE – CYLINDER HEAD

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016442	Case, Rocker	1
2	1016436	Gasket, Rocker Case	1
3	1016583	Bolt, Flanged, M6 x 1 x 35 mm	2
4	1016569	O-Ring	2
5	1016545	Nut, Hex, M5 x .8	2
6	1016542	Screw, Stud, M5 x .8	2
7	1016451	Arm, Rocker	2
8	1016450	Collet	4
9	1016449	Retainer, Valve Spring	2
10	1016523	Spring, Engine Valve	2
11	1016431	Assembly, Cylinder Head, OHV (includes items 12 and 13)	1
12	1016560	Ring, Snap	2
13	1016519	Guide, Valve	2
14	1016479	Seat, Spring	2
15	1016566	Seal, Valve	2
16	1016448	Valve, Exhaust	1
17	1016447	Valve, Intake	1
18	1016544	Screw, Cross Pan Head Self-Tapping, M5 x .8 x 12 mm	1
19	1016474	Plate	1
20	1016483	Valve	1
21	1016563	Pin	2
22	1016489	Bolt, Stud, M8 x 1.25 x 29 mm	2
23	1016452	Shaft, Rocker	1
24	1016471	Rod, Push	2
25	1016549	Washer, Flat, M12	1
26	1016517	Circlip, Type E	1
27	1016458	Bolt, Flanged, M8 x 1.25 x 45 mm	6
28	1016430	Gasket, Head	1
	102304701	Kit, Gasket, FE290 (not shown)(contains one each of all internal gaskets for the FE290 engine)	1


TYPICAL 2
PLACES
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CLAMP
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TYPICAL 2
PLACES
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TYPICAL 3
PLACES
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TYPICAL 2
PLACES
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TYPICAL 6
PLACES
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TYPICAL 2
PLACES
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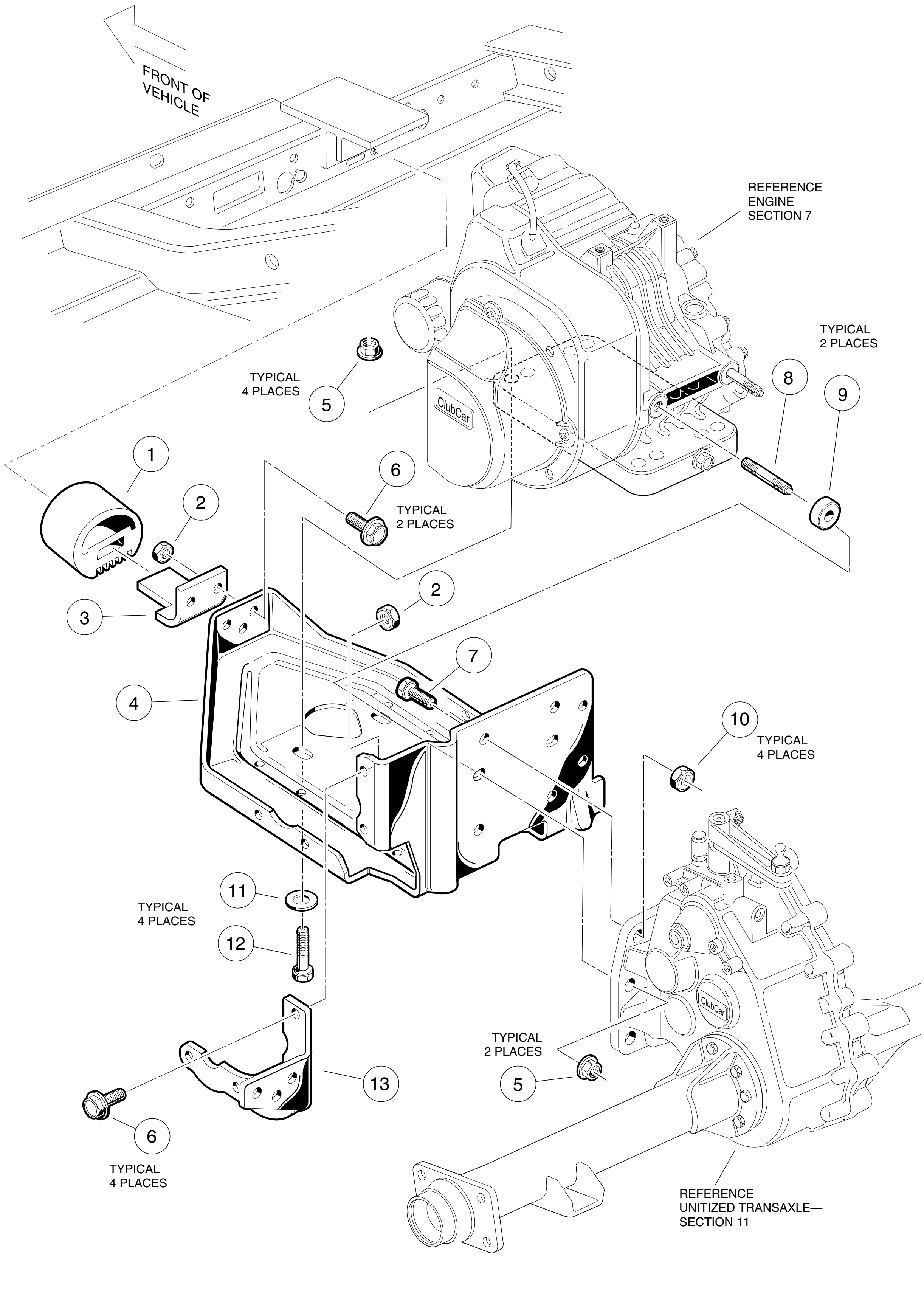
FE290 ENGINE – CRANKCASE, CAMSHAFT AND OIL SENSOR

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016535	Connector, Cord	1
2	1016538	O-Ring	1
3	1016506	Clamp	1
4	1016544	Screw, Cross Pan Head Self-Tapping, M5 x.8 x 12 mm	1
5	1016564	Pin	2
6	1016565	Bearing, Ball	1
7	1016567	Seal, Crankshaft	1
8	1016584	Bolt, 2-Ended, M8 x 1.25 x 69 mm	2
9	1016458	Bolt, Flanged, M8 x 1.25 x 45 mm	6
10	1016520	Cover, Crankcase	1
11	1016446	Gasket, Crankcase Cover	1
12	1016456	Bolt, Flanged, M6 x 1 x 12 mm	2
13	1016510	Bracket, Oil Level Switch	1
14	1016494	Sensor, Oil Level	1
15	1016496	Screw, Cross Pan Head, M4 x.7 x 8 mm	3
16	1016454	Bolt, Flanged, M5 x.8 x 8 mm	2
17	1016472	Plate, Oil Filter Screen	1
18	1016521	Screen, Oil Filter	1
19	101915401	Camshaft, Complete	1
20	1016453	Tappet	2


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TYPICAL 2
PLACES
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TYPICAL 4
PLACES
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TYPICAL 4
PLACES
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FE290 ENGINE – CRANKCASE AND CRANKSHAFT

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016568	Seal, Oil	1
2	101915501	Crankcase, OHV	1
3	1016558	Ring, Snap	2
4	1016460	Pin, Piston	1
5	101645901	Piston, Standard	1
5	101645902	Piston, .25 mm Oversized	1
5	101645903	Piston, .50 mm Oversized	1
6	101646101	Ring Set, Piston, Standard	1
6	101646102	Ring Set, Piston, .25 mm Oversized	1
6	101646103	Ring Set, Piston, .50 mm Oversized	1
7	101647501	Assembly, Connecting Rod, Standard (includes 2 each of item 8)	1
7	101647502	Assembly, Connecting Rod, .50 mm Undersized (includes 2 each of item 8)	1
8	1016509	Screw, Hex Head Cap, M7 x 1 x 36 mm	2
9	101922301	Crankshaft, FE290 (left-hand thread) (includes items 10, 11 and one each of item 12)	1
10	1016533	Gear, Helical	1
11	1016532	Gear, Spur	1
12	1016516	Assembly, Rod (includes one each of item 13)	2
13	1016580	Bearing, Plain	2
14	1016562	Key	1
15	101655001	Shim, Crankshaft, 1.13 mm Thick	A/R
15	101655002	Shim, Crankshaft, 1.18 mm Thick	A/R
15	101655003	Shim, Crankshaft, 1.23 mm Thick	A/R
15	101655004	Shim, Crankshaft, 1.28 mm Thick	A/R
15	101655005	Shim, Crankshaft, 1.33 mm Thick	A/R
15	101655006	Shim, Crankshaft, 1.38 mm Thick	A/R
15	101655007	Shim, Crankshaft, 1.43 mm Thick	A/R
15	101655008	Shim, Crankshaft, 1.48 mm Thick	A/R
15	101655009	Shim, Crankshaft, 1.53 mm Thick	A/R
16	1016559	Spacer	1
17	1016541	Bolt, Stud, M6 x 1 x 22 mm	4
18	1016547	Nut, Flanged, M6 x 1	4
19	1016470	Shaft, Counterbalance Guide	1
20	1016571	O-Ring	1
21	1016469	Weight, Counterbalance	1


FRONT OF VEHICLE
REFERENCE ENGINE SECTION 7
TYPICAL 2 PLACES
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TYPICAL 4 PLACES
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ClubCar
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TYPICAL 2 PLACES
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TYPICAL 4 PLACES
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TYPICAL 4 PLACES
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TYPICAL 2 PLACES
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TYPICAL 4 PLACES
REFERENCE UNITIZED TRANSAXLE— SECTION 11

ENGINE MOUNTING

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1012164	Snubber	1
2	1013924	Nut, Hex Lock, 5/16-24, UNF	6
3	101834601	Bracket, Snubber	1
4	101827101	Plate, Mounting	1
5	101833001	Nut, Flange, M8 x 1.25	6
6	101884801	Screw, Hex Washer, 5/16-24 x 7/8	6
7	101833301	Screw, Hex Head Cap, M10 x 1.25 x 30 mm	4
8	101833201	Stud, M8 x 1.25 x 60 mm	2
9	101832101	Spacer	2
10	101832901	Nut, Flange, M10 x 1.25	4
11	1012571	Washer, Heavy Flat, 5/16	4
12	101855901	Screw, Hex Head Cap, M8 x 1.25 x 43 mm	4
13	101832701	Stiffener, Flywheel Side	1

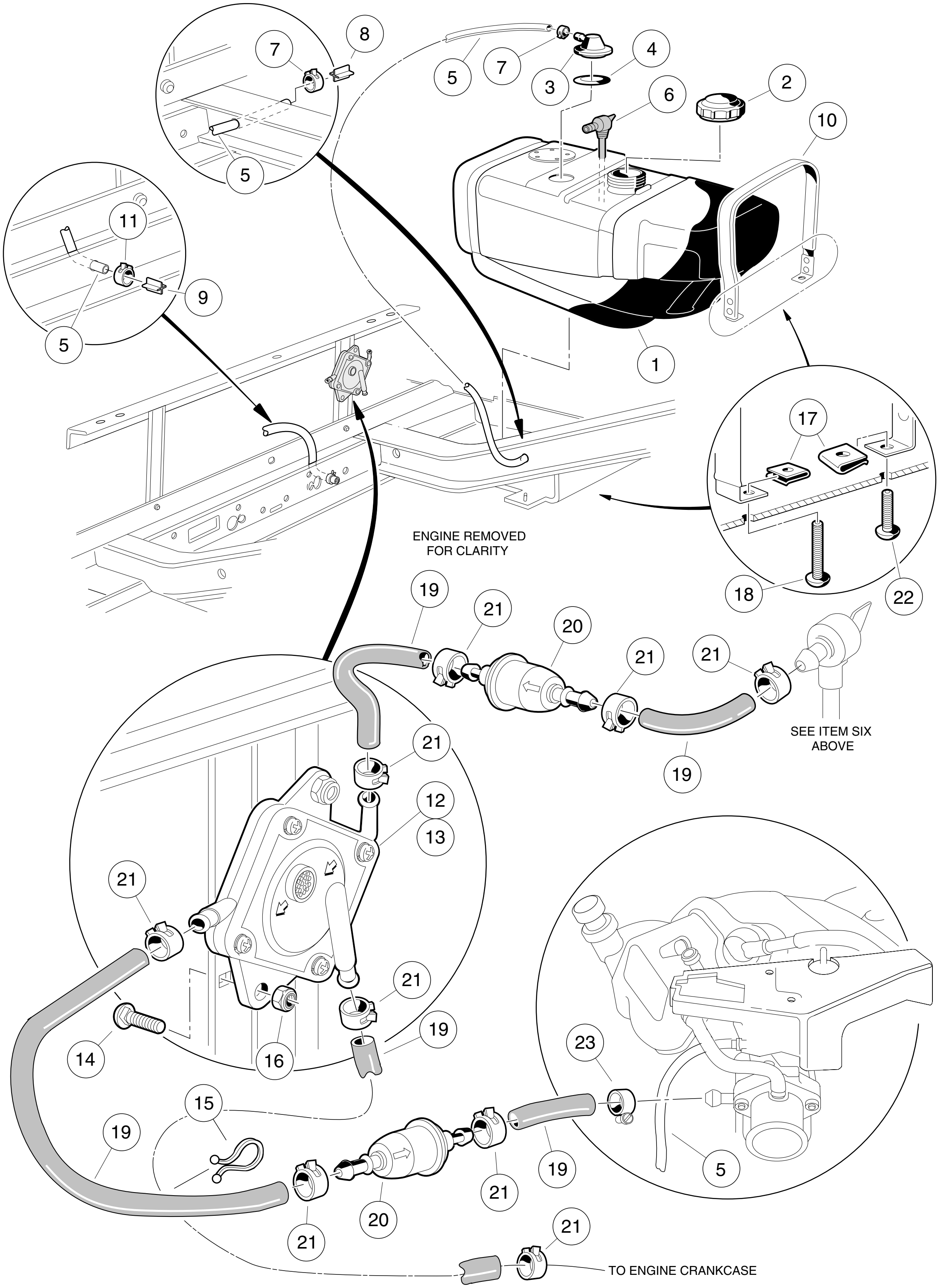
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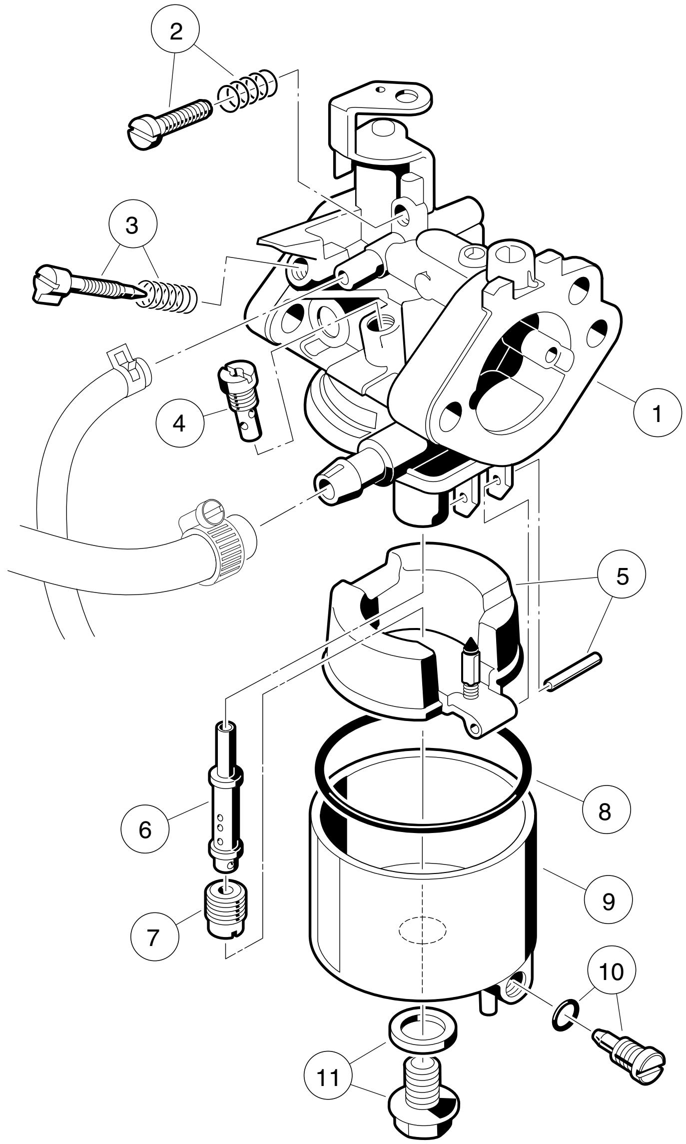
FUEL, INTAKE, AND GOVERNOR SYSTEMS

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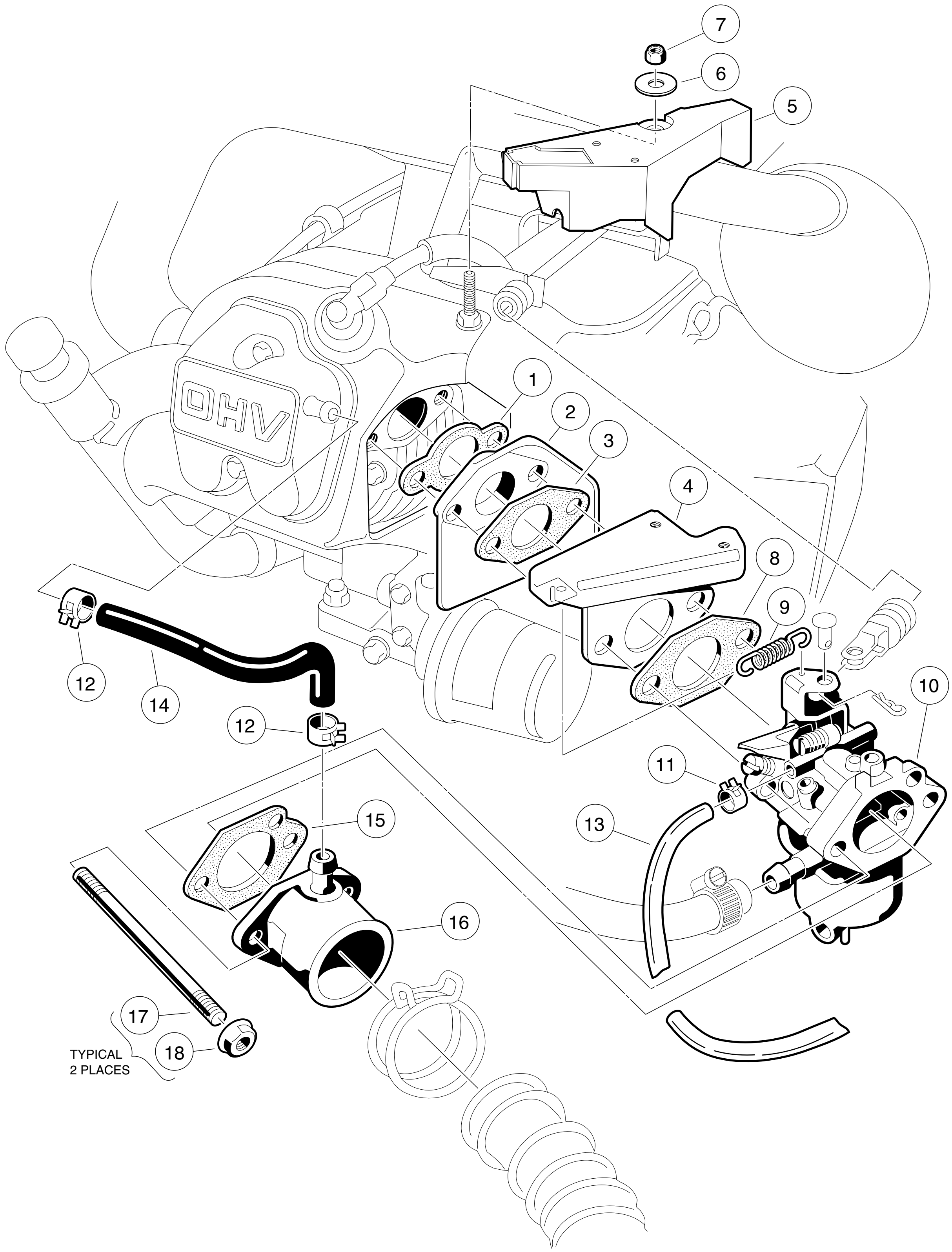

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ENGINE REMOVED
FOR CLARITY
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ABOVE
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TO ENGINE CRANKCASE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016003	Kit, Fuel Tank (includes items 2 - 8)	1
2	1015188	Cap, Fuel Tank, Nonvented	1
3	1015143	Assembly, Fuel Tank Vent	1
4	1015139	Grommet, Insulation	1
5	1015137	Line, Bulk Vent (available by the foot)	A/R
6	101896901	Valve, Fuel Pickup Tube with Shut-Off	1
7	1013746	Clamp, Hose	2
8	101824401	Barb, Vent	1
9	101824401	Barb, Vent	1
10	1014928	Assembly, Rear Fuel Strap	1
11	1013746	Clamp, Hose	2
12	1014523	Pump, Fuel Impulse	1
13	1014524	Rebuild Kit, Fuel Impulse Pump	1
14	1017203	Screw, Round-Head Square-Neck, 1/4-20 x 1	2
15	101987701	Clamp, Plastic	1
16	8233	Nut, Nylon Lock, 1/4-20	2
17	1014116	Nut, U-Type Speed, 1/4-20	2
18	1011988	Screw, Phillips Truss Head, 1/4-20 x 2	1
19	1013692	Line, Bulk Fuel (available by the foot)	A/R*
20	102003201	Filter, Fuel	2
21	1012649	Clamp, Hose (red)	9
22	8248	Screw, Phillips Truss Head, 1/4-20 x 3/4	1
23	1013687	Clamp, Hose, 3/8	1
		* The total fuel line length for the DS Golf Car is 47 inches (119.4 cm).	


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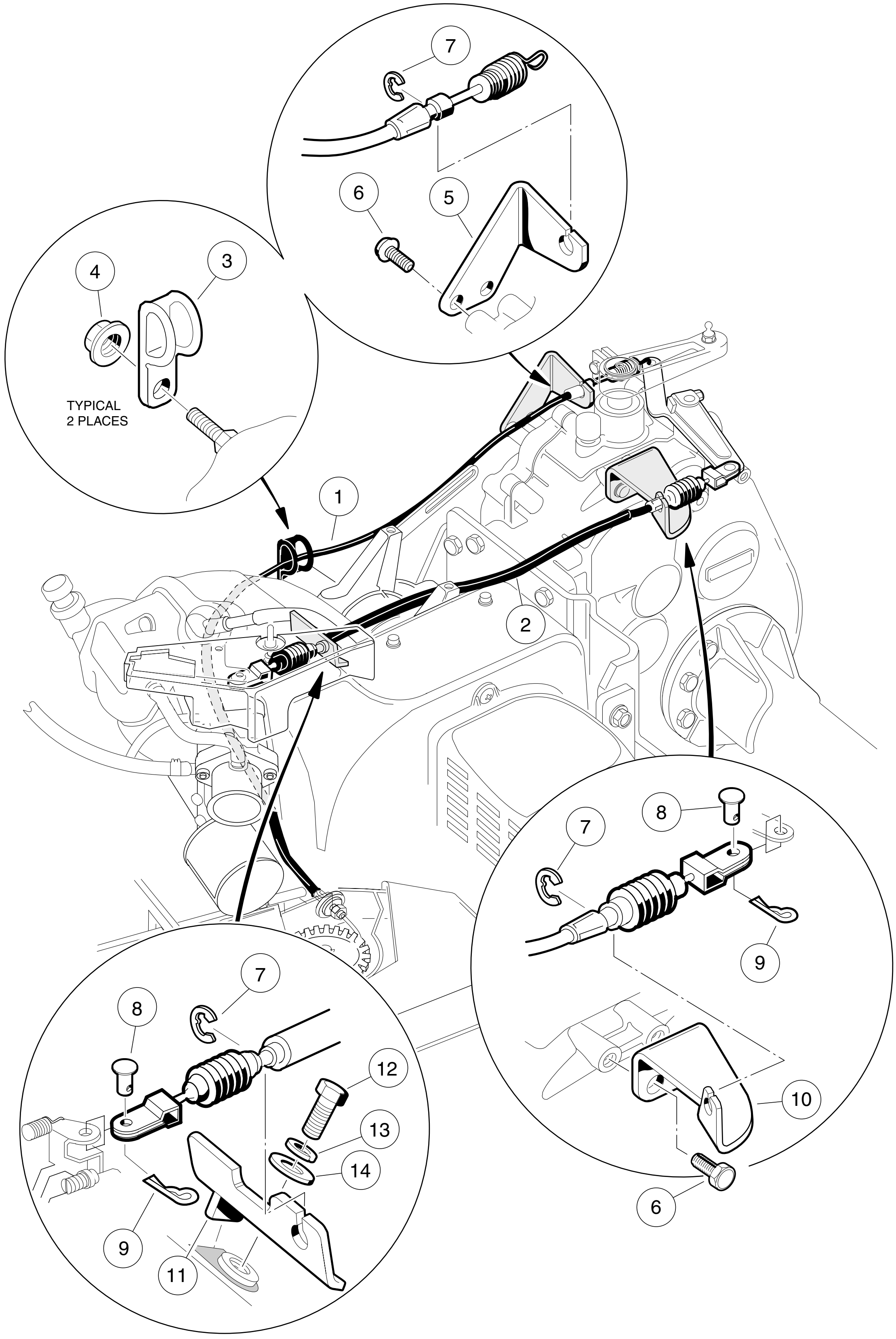
CARBURETOR ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101905601	Assembly, Carburetor (includes items 2 - 11)	1
2	1016501	Assembly, Idle Screw	1
3	N/A	Assembly, Pilot Air Screw	1
4	101973101	Jet, Pilot, #40	1
5	1016486	Assembly, Float	1
6	101973201	Nozzle, Main	1
		Standard Jetting:	
7	101642582	Jet, Main, 0 - 3,000 feet	1
7	101642580	Jet, Main, 3,000 - 5,000 feet	A/R
7	101642578	Jet, Main, 5,000 - 8,000 feet	A/R
7	101642575	Jet, Main, 8,000 - 10,000 feet	A/R
7	101642572	Jet, Main, 10,000 Feet and Above	A/R
8	1016437	Gasket, Float Chamber	1
9	1017461	Assembly, Float Chamber (includes item 10)	1
10	1016499	Assembly, Screw	1
11	1016585	Assembly, Bolt	1


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TYPICAL
2 PLACES
OHV

CARBURETOR INSTALLATION

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016440	Gasket, Insulator	1
2	101648102	Insulator, Carburetor	1
3	1016439	Gasket, Carburetor Insulator to Throttle Bracket	1
4	1016444	Bracket, Throttle	1
5	101820201	Guard, Governor	1
6	1011697	Washer, Flat, 5/16	1
7	101887601	Nut, Nylon Lock, M6 x 1	1
8	1016441	Gasket, Throttle Bracket to Carburetor	1
9	1016582	Spring, Throttle Return	1
10	101905601	Assembly, Carburetor	1
11	1013746	Clamp, Hose (gray)	1
12	1017466	Clamp, Hose (bronze)	2
13	1015137	Line, Bulk Vent (available by the foot)	A/R
14	1016572	Tube, Crankcase Vent	1
15	1016438	Gasket, Carburetor to Intake Manifold	1
16	1016480	Pipe, Intake	1
17	101649002	Screw, 2-Ended Stud, M6 x 1 x 90 mm	2
18	1016547	Nut, Flanged, M6 x 1	2


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TYPICAL
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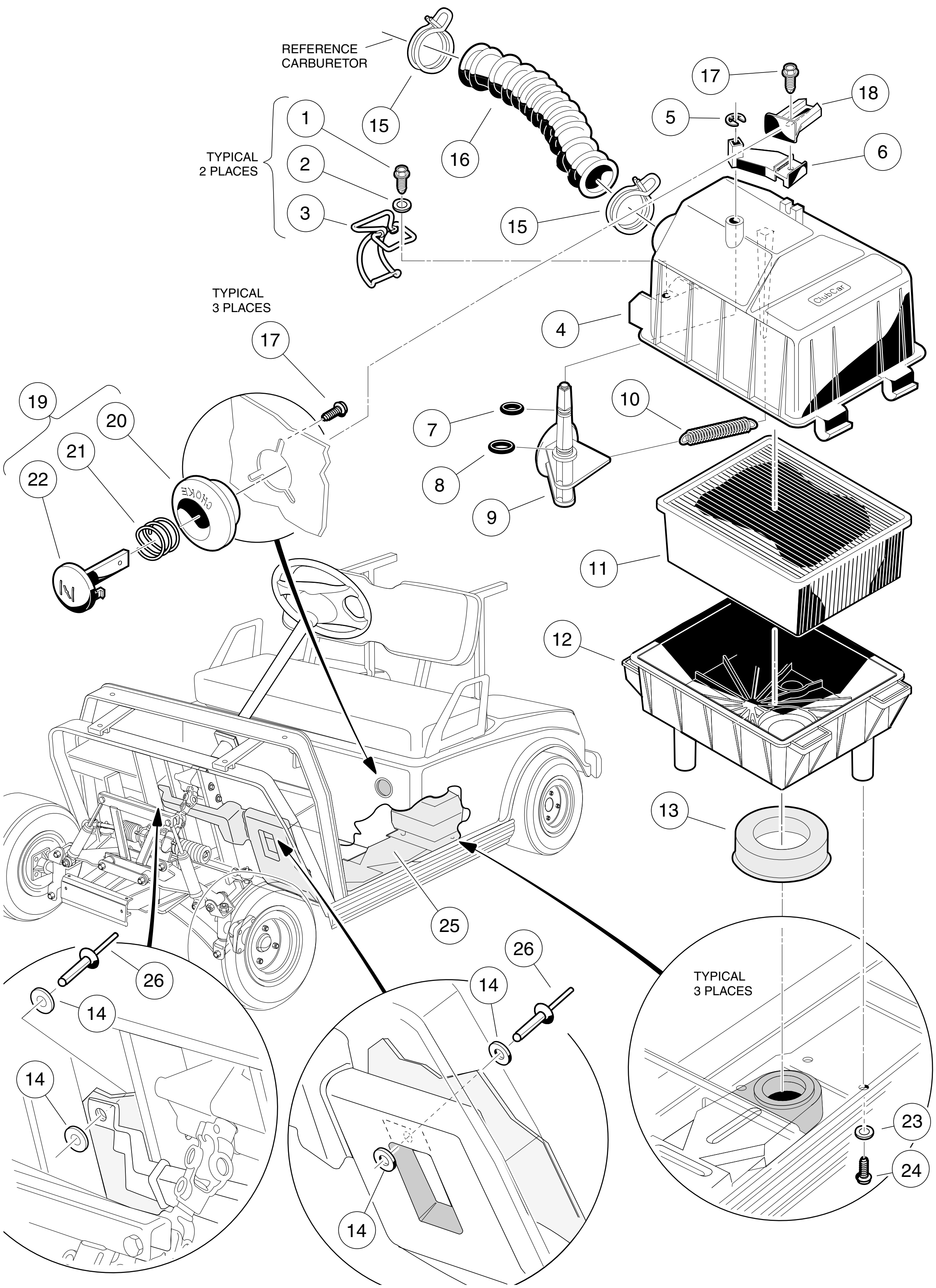
GOVERNOR AND ACCELERATOR CABLES

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ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101832501	Cable, Accelerator	1
2	101832401	Cable, Governor	1
3	1013700	Clamp, Cable Retaining	2
4	1016546	Nut, Flanged Hex, M8 x 1.25	2
5	101832301	Bracket, Accelerator Support	1
6	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	4
7	1016202	E-Ring	3
8	1015408	Pin, Governor Cable Clevis	2
9	1014413	Pin, Hair Spring Cotter, 1/8 I.D. x 5/8	2
10	101832201	Bracket, Support	1
11	1015845	Bracket, Governor Cable Engine	1
12	101903501	Screw, Hex Head Cap, M8 x 1.25 x 24 mm	1
13	7174	Washer, Lock, 5/16	1
14	1011697	Washer, Flat, 5/16	1

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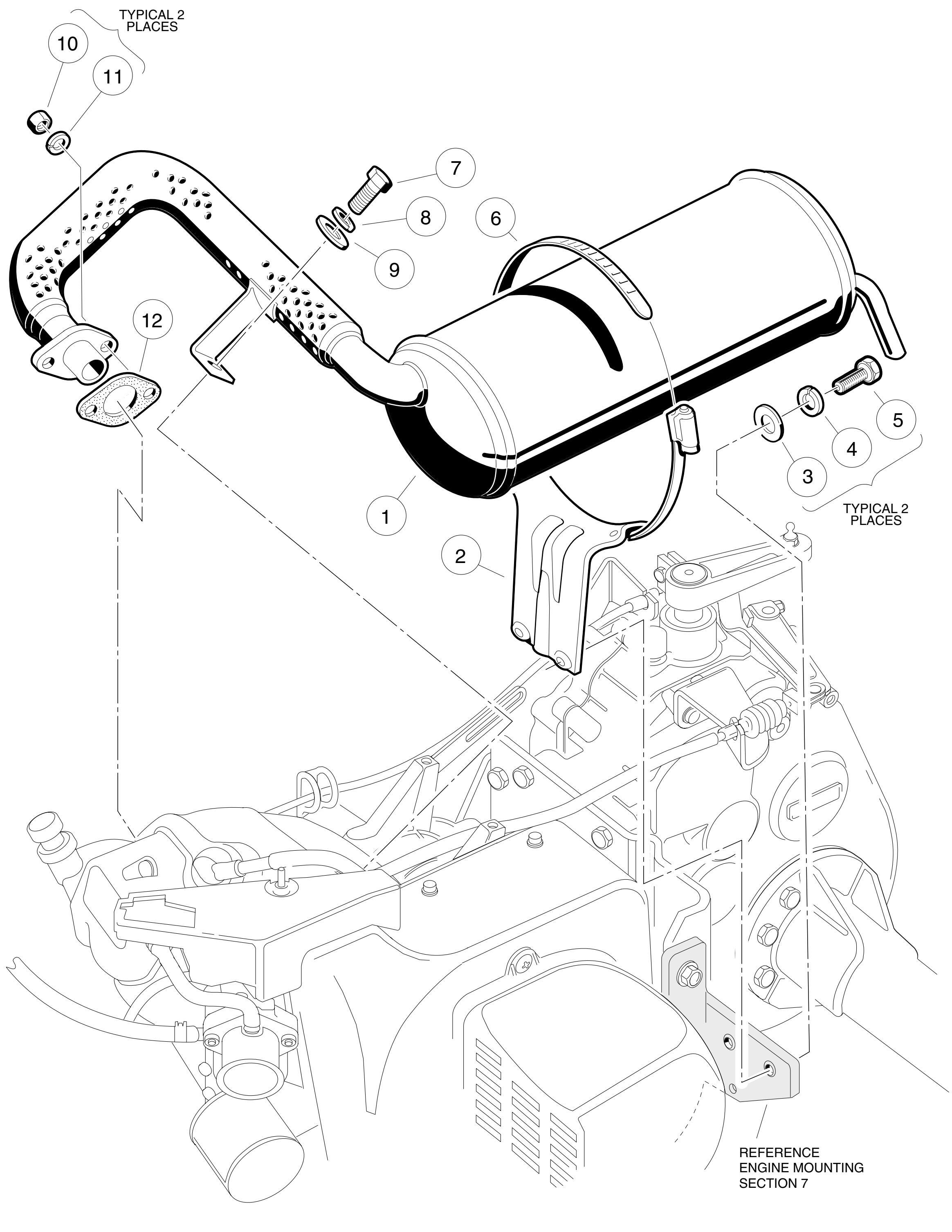
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REFERENCE
CARBURETOR
TYPICAL
2 PLACES
TYPICAL
3 PLACES
TYPICAL
3 PLACES
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INTAKE DUCT, CHOKE, AND AIR BOX ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101821501	Assembly, Air Box (includes items 1 - 13)	1
1	101804301	Screw, Hi-Lo Hex Head, #8-1/2	2
2	101881701	Washer, Stainless Steel, #8	2
3	101925701	Latch, Wire	2
4	101972801	Assembly, Air Box Top (includes items 5 - 10)	1
5	101813001	E-Clip	1
6	101917601	Lever, Choke	1
7	N/A	O-Ring, 5/16 (red)	1
8	N/A	O-Ring, 3/8 (green)	1
9	N/A	Valve, Choke	1
10	101812301	Spring, Return	1
11	1015426	Filter, Air	1
12	101811901	Bottom, Air Box	1
13	101921501	Seal, Intake	1
14	183	Washer, Flat, #10	4
15	101971301	Clamp, Hose (air Intake)	2
16	101837101	Hose, Intake	1
17	101850301	Screw, Hi-Lo, #12 x 1/2	4
18	101917701	Positioner, Choke	1
19	101805701	Assembly, Choke Button (includes items 20, 21 and 22)	1
20	101811501	Guide, Choke Lever	1
21	101856201	Spring, Compression	1
22	101811401	Lever, Choke	1
23	332	Washer, Flat, 1/4	3
24	1015752	Screw, Hi-Lo, #12-16 x 5/8	3
25	101958101	Assembly, Air Duct	1
26	1606	Rivet, Pop, 3/16	2
	101971001	Air Duct Repair Kit (not shown)	A/R

EXHAUST SYSTEM


TYPICAL 2
PLACES
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TYPICAL 2
PLACES
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REFERENCE
ENGINE MOUNTING
SECTION 7

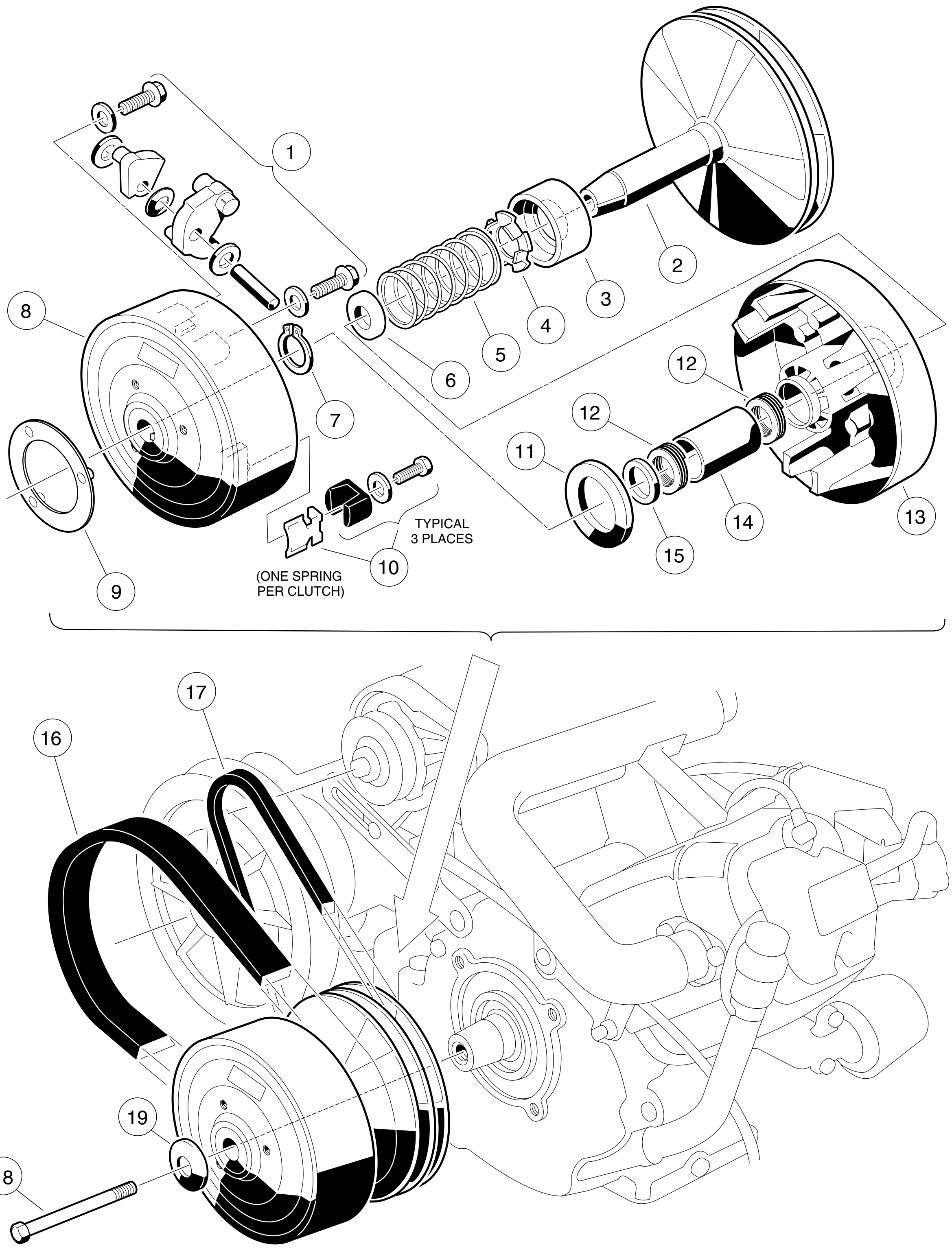
EXHAUST SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101859301	System, Exhaust	1
2	1015814	Bracket, Muffler Mounting	1
3	332	Washer, Flat, 1/4	2
4	451	Washer, Lock, 1/4	2
5	7847	Screw, Hex Head, 1/4-20 x 3/4	2
6	1017689	Clamp, Muffler	1
7	1012830	Screw, Hex Head Cap, M8 x 1.25 x 22 mm	1
8	7174	Washer, Lock, 5/16	1
9	1015075	Washer, Flat, 5/16	1
10	1012528	Nut, Hex, M8 x 1.25	2
11	1013734	Washer, Lock, 8 mm	2
12	1015330	Gasket, Exhaust	1

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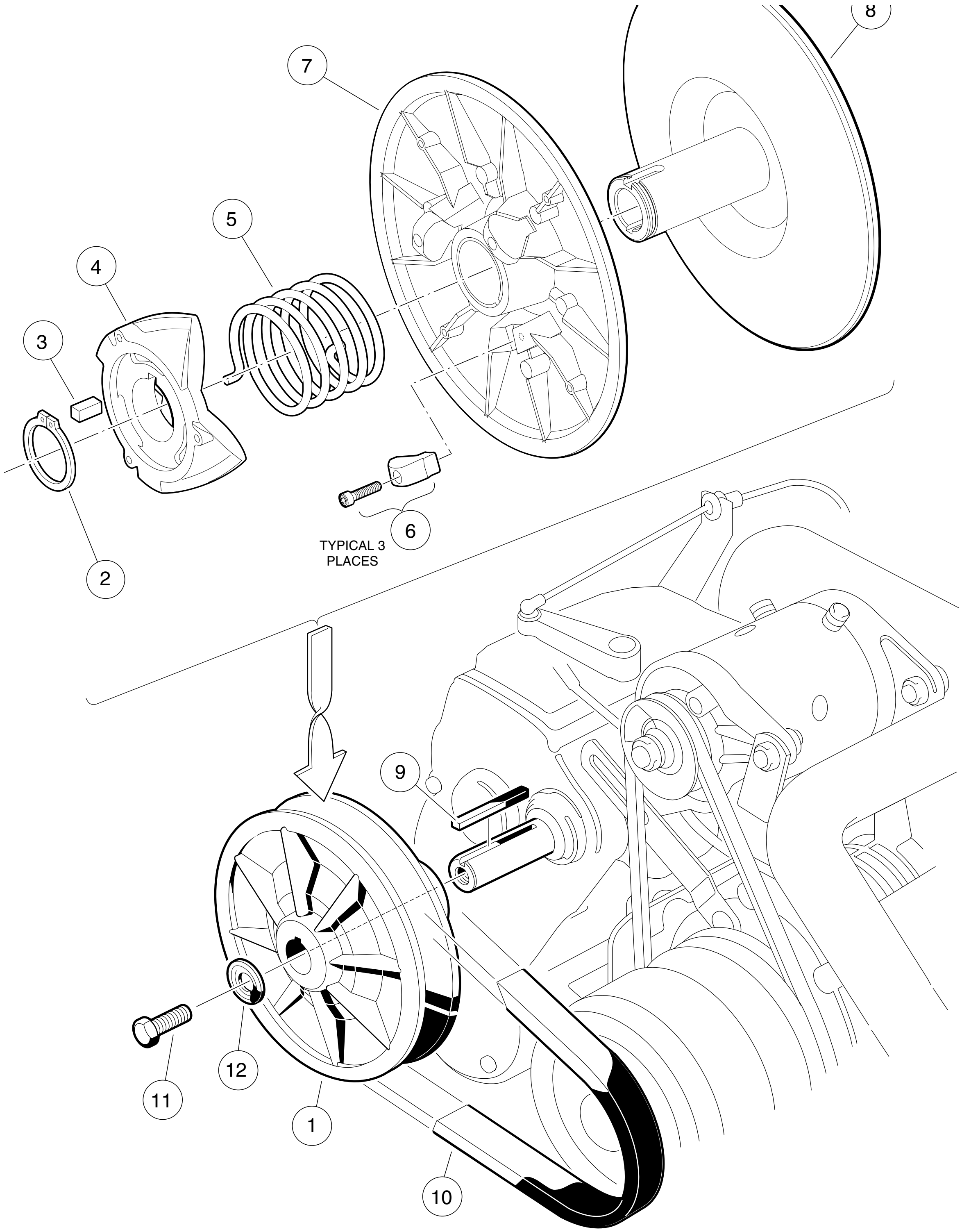
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TORQUE CONVERTER


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TYPICAL
3 PLACES
(ONE SPRING
PER CLUTCH)
16
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DRIVE CLUTCH

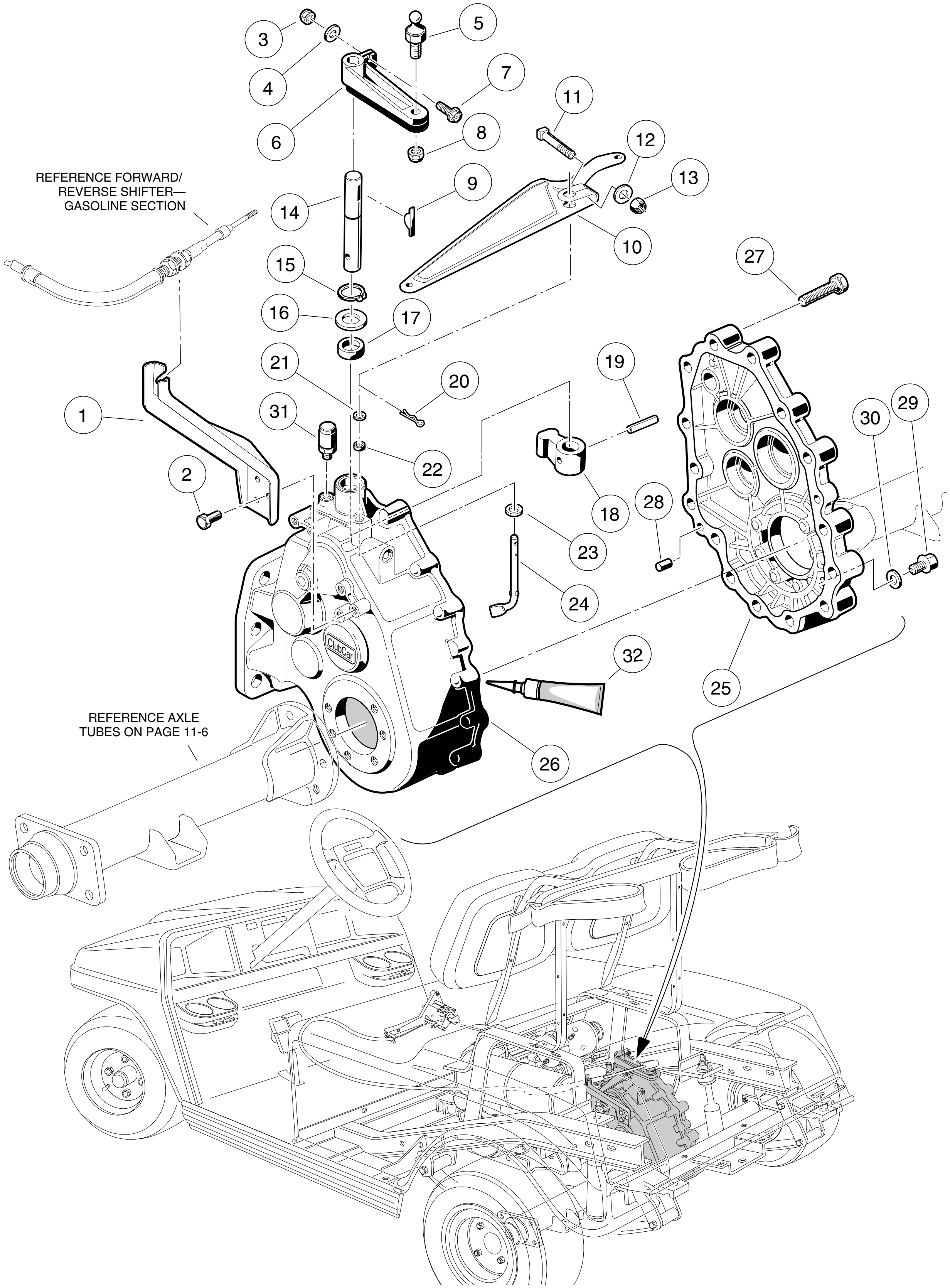
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101833902	Assembly, Drive Clutch (includes items 1 - 15)	1
1	1016801	Kit, Drive Clutch Weight	1
2	101929801	Assembly, Fixed Face	1
3	1014049	Bearing, Idler	1
4	1014050	Retainer, Spring	1
5	1014051	Spring, Drive Clutch – Black	1
6	1016289	Spacer, Fixed Face Shaft	1
7	1014057	Ring, Retaining	1
8	1014059	Assembly, Drive Hub	1
9	101925601	Plug, Drive Clutch	1
10	1014453	Kit, Drive Clutch Button (includes one spring and three each of the screw, washer, and button)	1
11	1014058	Washer, Thrust	1
12	1014056	Ring, Spiral Back-Up	2
13	1014052	Assembly, Moveable Face (includes items 14 and 15)	1
14	N/A	Bushing	1
15	1014055	Retainer	1
16	1016203	Belt, Drive	1
17	101916701	Belt, Starter/Generator	1
18	101916501	Screw, Hex Head Cap, 3/8-24 x 5-1/2 (left-hand threads)	1
19	1017328	Washer, Drive Clutch – Green	1


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TYPICAL 3 PLACES
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DRIVEN CLUTCH

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101834001	Assembly, Driven Clutch (includes items 2 - 8)	1
2	1014080	Ring, Retaining	1
3	1014078	Key	1
4	1017686	Cam	1
5	101836201	Spring – Green	1
6	1014454	Kit, Driven Clutch Button (includes 3 screws and 3 buttons)	1
7	1014072	Assembly, Moveable Face with Bushing	1
8	1014070	Face, Fixed	1
9	101833401	Key, Square Transmission	1
10	1016203	Belt, Drive	1
11	102242101	Screw, Hex Head Cap, Thread-Locking Patch, 5/16-18 x 3/4	1
12	102155801	Washer, Driven Clutch	1

UNITIZED TRANSAXLE

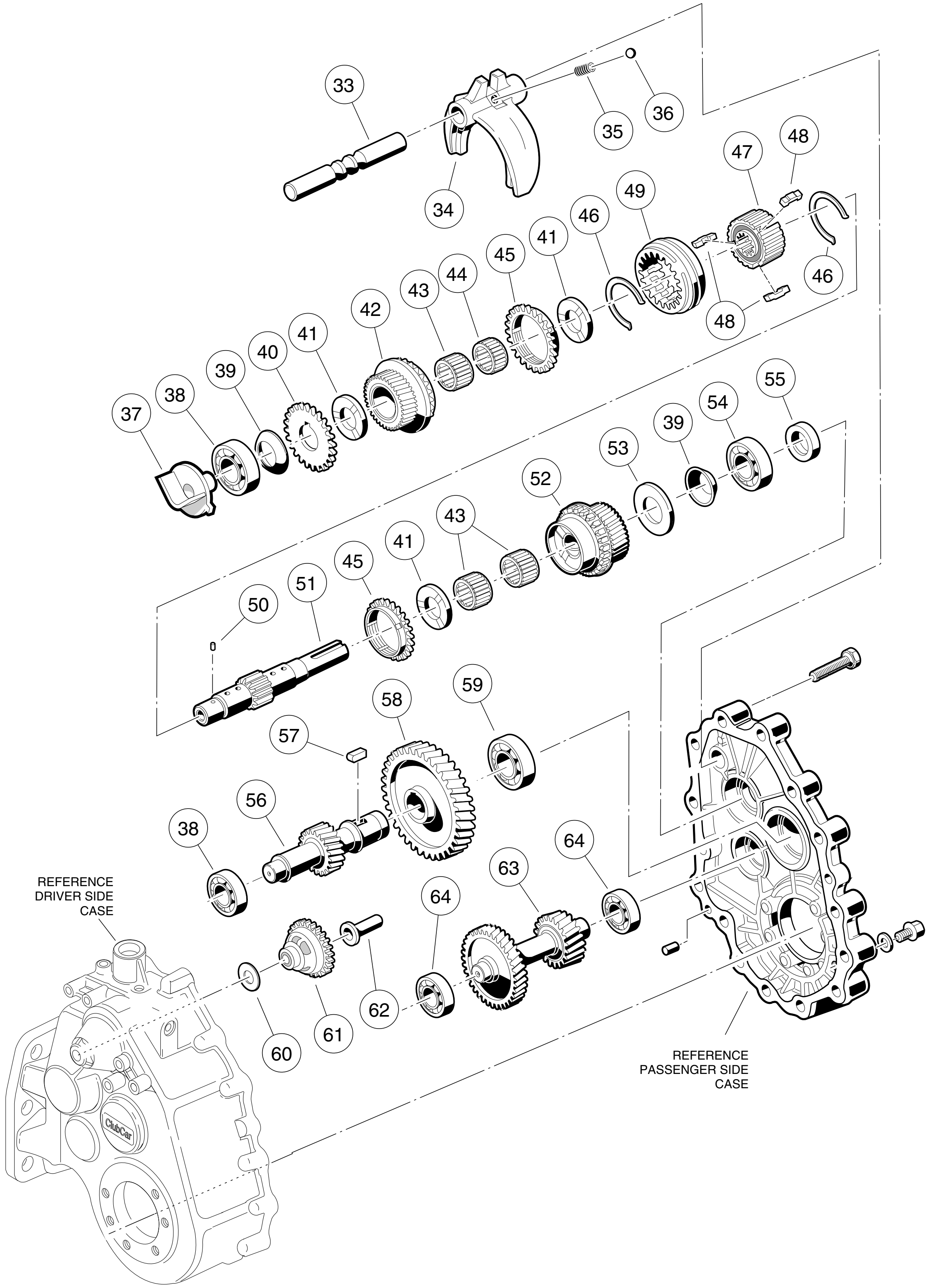

REFERENCE FORWARD/
REVERSE SHIFTER—
GASOLINE SECTION
REFERENCE AXLE
TUBES ON PAGE 11-6
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UNITIZED TRANSAXLE – GEAR CASES AND BRACKETS

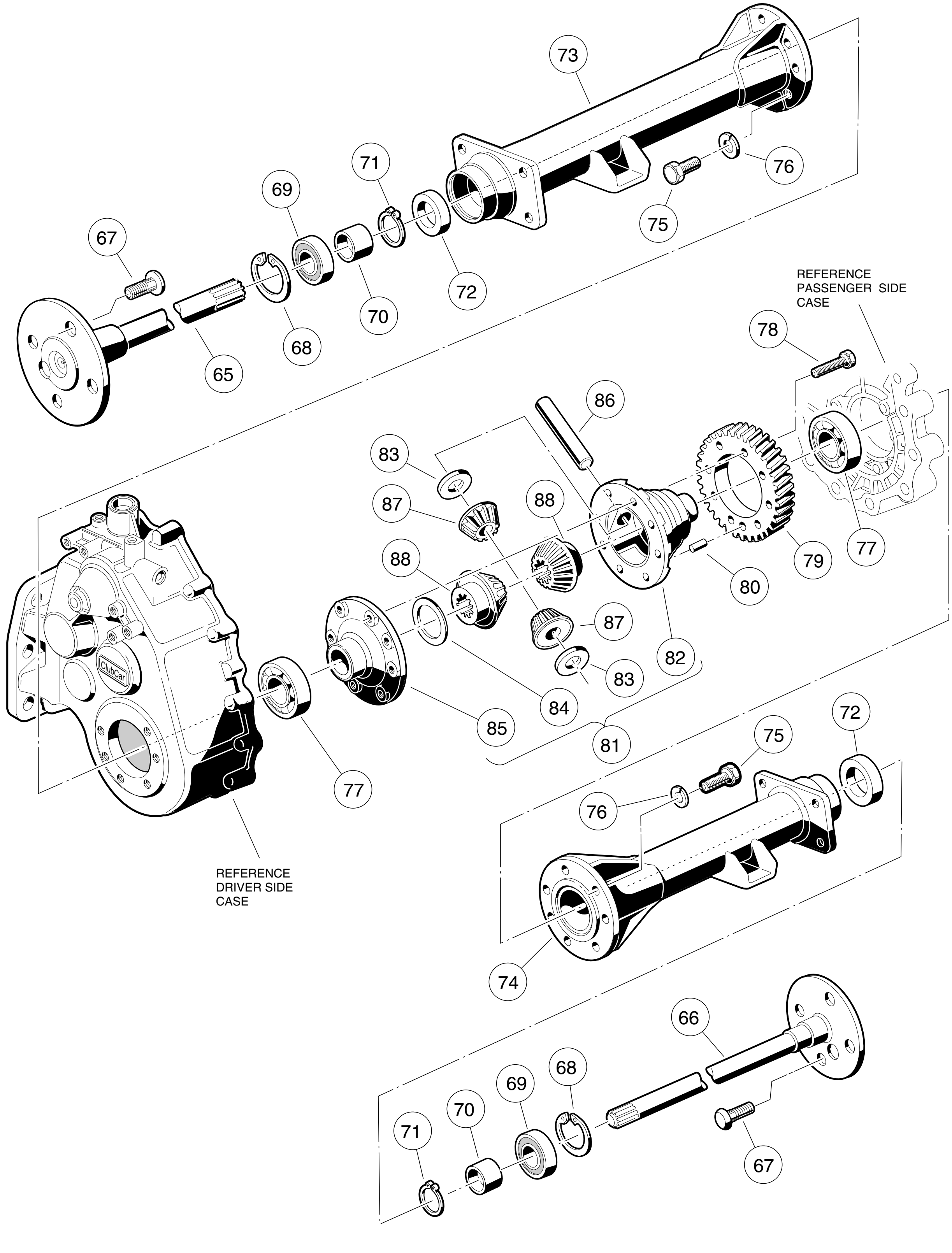
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101922601	Bracket, Transmission Cable Support	1
2	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	3
3	1013061	Nut, Nylon Lock, #10-32	1
4	183	Washer, Flat, #10	1
5	1010954	Stud, Ball, 1/4-28 x 9/16	1
6	1016341	Lever, Transmission Shifter	1
7	1017082	Screw, Hex Washer Head, #10-32 x 3/4	1
8	8717	Nut, Nylon Lock, 1/4-28	1
9	1017231	Key, Woodruff	1
10	101834801	Arm, Governor Lever	1
11	101886101	Screw, Square Head, 1/4-20 x 1	1
12	1014007	Washer, Type B, 1/4	1
13	8233	Nut, Nylon Lock, 1/4-20	1
	101833601	Unitized Transaxle (includes items 14 - 88)	1
14	101890201	Shaft, Shifter	1
15	101927301	Ring, Snap	1
16	101892901	Washer, Flat	1
17	101927201	Seal, Oil	1
18	101890101	Lever, Shifter	1
19	1012752	Pin, Roll	1
20	101928601	Pin, Cotter	1
21	1016513	Washer, Flat	1
22	101927101	Seal, Oil	1
23	101893801	Washer	1
24	101891301	Arm, Pivot	1
25	101890601	Gear Case (passenger side)	1
26	101890501	Gear Case (driver side)	1
27	101926901	Bolt, Flanged, M8 x 1.25 x 40 mm	15
28	1012896	Pin, Dowel	2
29	1013759	Plug, Drain (includes item 30)	2
30	1016432	Gasket	1
31	1012711	Breather	1
32	101928701	Gasket, Liquid, 8.8 oz. (250 grams)	A/R

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REFERENCE
DRIVER SIDE
CASE
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62
REFERENCE
PASSENGER SIDE
CASE

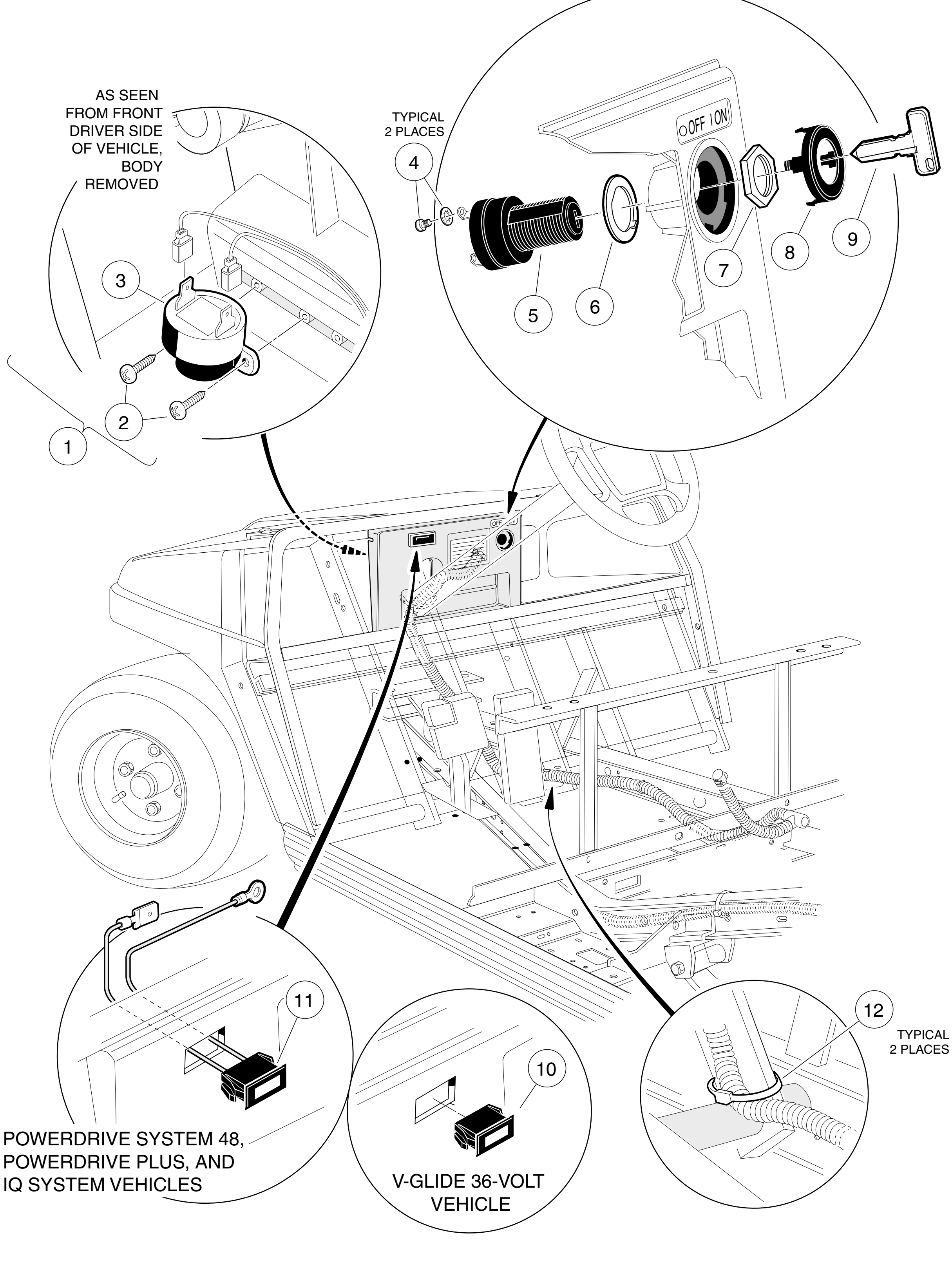
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
33	101892001	Rod, Shift	1
34	101890001	Fork, Shift	1
35	1012748	Spring	1
36	1012747	Ball, Steel	1
37	101889401	Guide	1
38	7336	Bearing, Ball	2
39	1016338	Washer, Spring	2
40	101892401	Gear, Spur	1
41	101892201	Plate, Thrust	3
42	101980901	Gear Assembly, Input, 28 Tooth (16°)	1
43	101927601	Bearing, Needle	3
44	101927501	Bearing, Needle	1
45	101981001	Ring, Synchronizer (16°)	2
46	1012741	Spring, Synchronizer	2
47	101928001	Hub, Synchronizer Clutch	1
48	1012740	Insert, Synchronizer	3
49	101927901	Sleeve, Synchronizer	1
50	101927701	Pin, Dowel	1
51	101889901	Shaft, Input	1
52	101980801	Gear Assembly, Input, 25 Tooth (16°)	1
53	1016337	Washer, Thrust	1
54	101927801	Bearing, Ball	1
55	1012714	Seal, Oil, Input Shaft	1
56	101892601	Gear, 17 Tooth	1
57	101893201	Key	1
58	101892501	Gear, 61 Tooth	1
59	101928101	Bearing, Ball	1
60	101893901	Washer	1
61	101892301	Governor Assembly	1
62	101891601	Sleeve	1
63	101891901	Gear, Cluster Idler	1
64	7335	Bearing, Ball	2


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REFERENCE
PASSENGER SIDE
CASE
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REFERENCE
DRIVER SIDE
CASE
74
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67

UNITIZED TRANSAXLE – DIFFERENTIAL AND AXLES

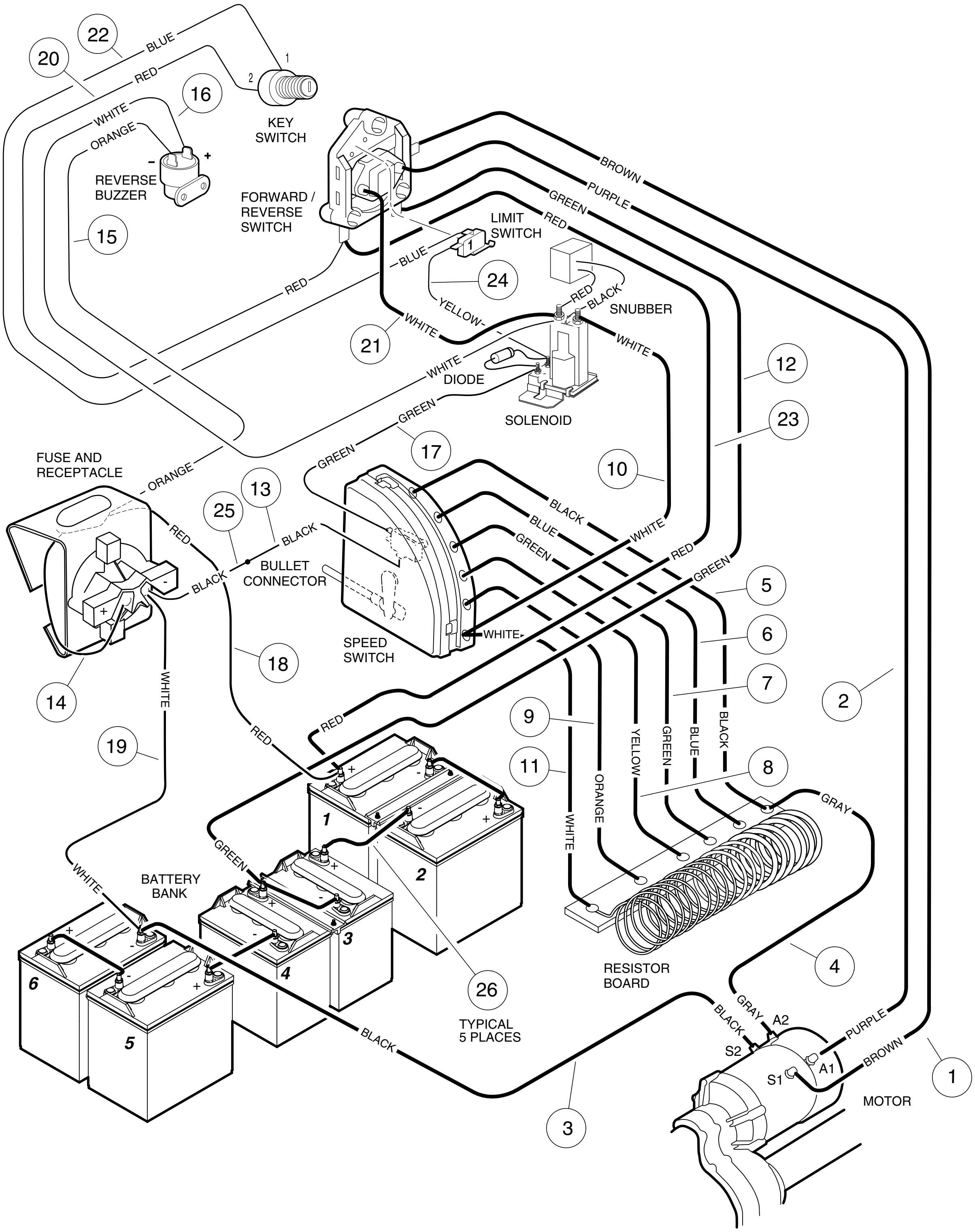
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
65	101891501	Axle Assembly, Driver Side (Includes items 67 - 71)	1
66	101891401	Axle Assembly, Passenger Side (includes items 67 - 71)	1
67	1013787	Stud, Lug	4
68	1013792	Ring, Retaining	1
69	1011291	Bearing, Outer Axle Tube	1
70	1014207	Collar, 25 mm I. D.	1
71	1016672	Ring, Retaining	1
72	1013794	Seal, Oil	2
73	101891001	Assembly, Axle Tube, Driver Side	1
74	101890901	Assembly, Axle Tube, Passenger Side	1
75	1013790	Bolt, M10 x 1.5 x 30 mm	14
76	1013791	Washer, Lock, M10	14
77	7330	Bearing, Inner Axle Tube	2
78	101928301	Bolt, M8 x 1.25 x 37 mm	8
79	101892701	Gear, Output	1
80	1014193	Pin, Dowel	1
81	101910501	Kit, Differential Gear Case (includes items 82 - 85)	1
82	1013768	Case, Gear Carrier	1
83	1013774	Plate, Thrust (idler gear)	2
84	1013773	Plate, Thrust (differential gear)	1
85	1013769	Cover, Gear Case	1
86	1013772	Pin, Differential	1
87	1013770	Gear, Differential Idler	2
88	1013771	Gear, Differential	2

ELECTRICAL SYSTEM – ELECTRIC VEHICLE


AS SEEN FROM FRONT DRIVER SIDE OF VEHICLE, BODY REMOVED
TYPICAL 2 PLACES
OFF ON
1
2
3
4
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11
12
TYPICAL 2 PLACES
POWERDRIVE SYSTEM 48, POWERDRIVE PLUS, AND IQ SYSTEM VEHICLES
V-GLIDE 36-VOLT VEHICLE

ELECTRICAL COMPONENTS, FRONT BODY – ELECTRIC VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016859	Kit, Reverse Buzzer (includes items 2 and 3)	1
2	1016849	Screw, Pan Head Hi-Lo, #4-24 x 5/16	2
3	1016851	Buzzer, Reverse	1
4	101830601	Assembly, Screw and Washer	2
5	101826201	Switch, Key	1
6	101851101	Washer, Key Switch	1
7	101830701	Nut, Key Switch	1
8	101834502	Cap, Key Switch	1
9	1012505	Key (pair)	1
10	101802601	Plug, Hole (V-Glide 36-Volt vehicle only)	1
11	101935501	Light, Battery Warning (amber) (PowerDrive System 48, PowerDrive Plus, and IQ System)	1
12	8990	Tie, Wire	2

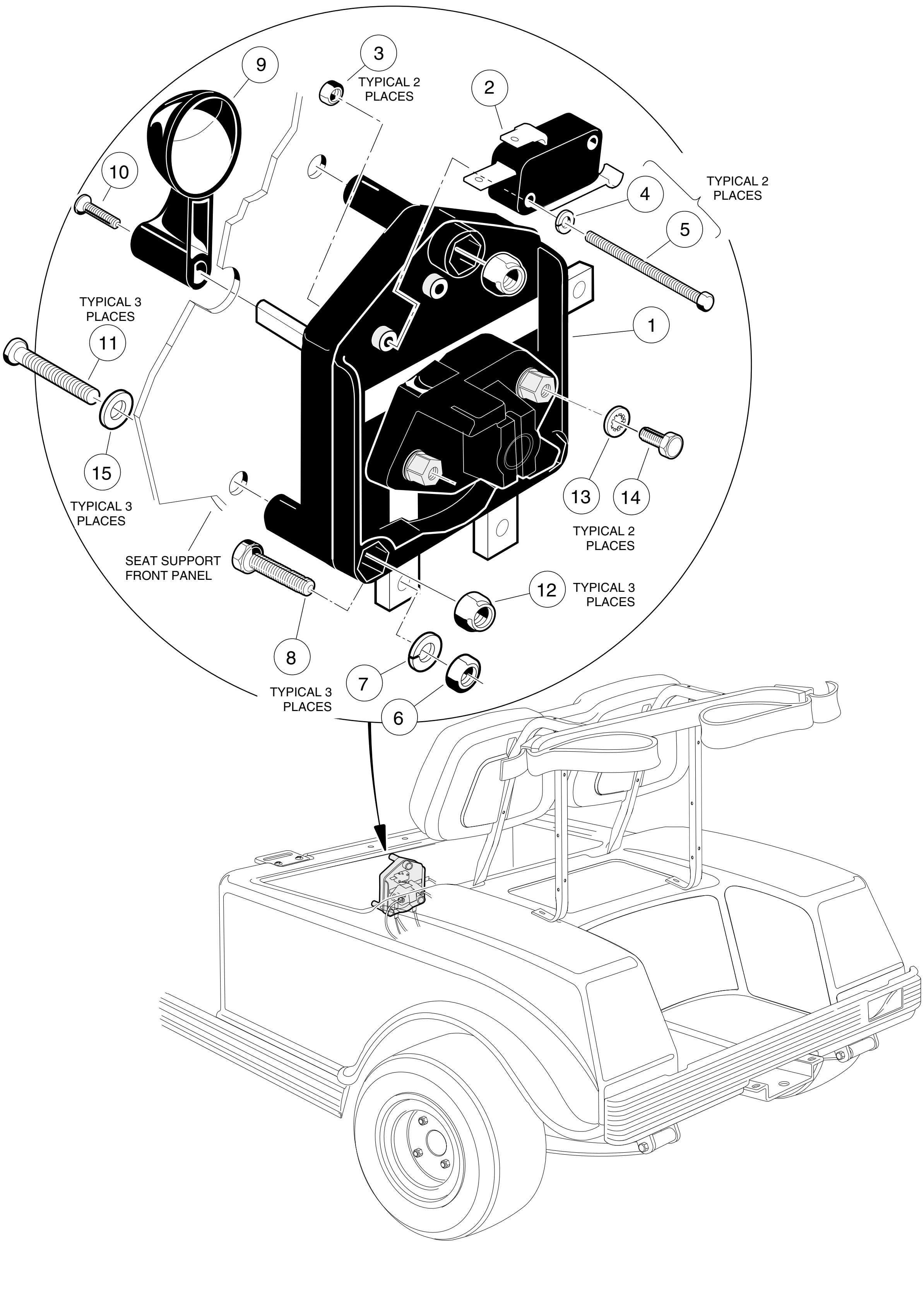

KEY SWITCH
REVERSE BUZZER
FORWARD / REVERSE SWITCH
LIMIT SWITCH
SNUBBER
DIODE
SOLENOID
FUSE AND RECEPTACLE
BULLET CONNECTOR
SPEED SWITCH
BATTERY BANK
RESISTOR BOARD
TYPICAL 5 PLACES
MOTOR
A1
A2
S1
S2
BLUE
RED
WHITE
ORANGE
BROWN
PURPLE
GREEN
BLACK
YELLOW
GRAY
1
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WIRING – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1016070	Wire Assembly, #6 Brown	1
2	1016069	Wire Assembly, #6 Purple	1
3	1012651	Wire Assembly, #6 Black	1
4	1016068	Wire Assembly, #6 Gray	1
5	1014036	Wire Assembly, #6 Black, 6th Speed	1
6	1014035	Wire Assembly, #6 Blue, 5th Speed	1
7	1014034	Wire Assembly, #6 Green, 4th Speed	1
8	1014033	Wire Assembly, #6 Yellow, 3rd Speed	1
9	1014032	Wire Assembly, #6 Orange, 2nd Speed	1
10	1014029	Wire Assembly, #6 White	1
11	1014030	Wire Assembly, #6 White, 1st Speed	1
12	1014828	Wire Assembly, #6 Green	1
13	N/A	Wire Assembly, #18 Black	1
14	1013092	Wire Assembly, #10 Red	1
15	N/A	Wire Assembly, #18 Orange	1
16	N/A	Wire Assembly, #18 White	1
17	N/A	Wire Assembly, #18 Green	1
18	102018001	Wire Assembly, #10 Red	1
19	1011010	Wire Assembly, #10 White	1
20	N/A	Wire Assembly, #18 Red	1
21	1014039	Wire Assembly, #6 White	1
22	N/A	Wire Assembly, #18 Blue	1
23	1011069	Wire Assembly, #6 Red	1
24	N/A	Wire Assembly, #18 Yellow	1
25	N/A	Wire Assembly, #18 Black	1
26	1010958	Wire Assembly, #6 Black	5

12

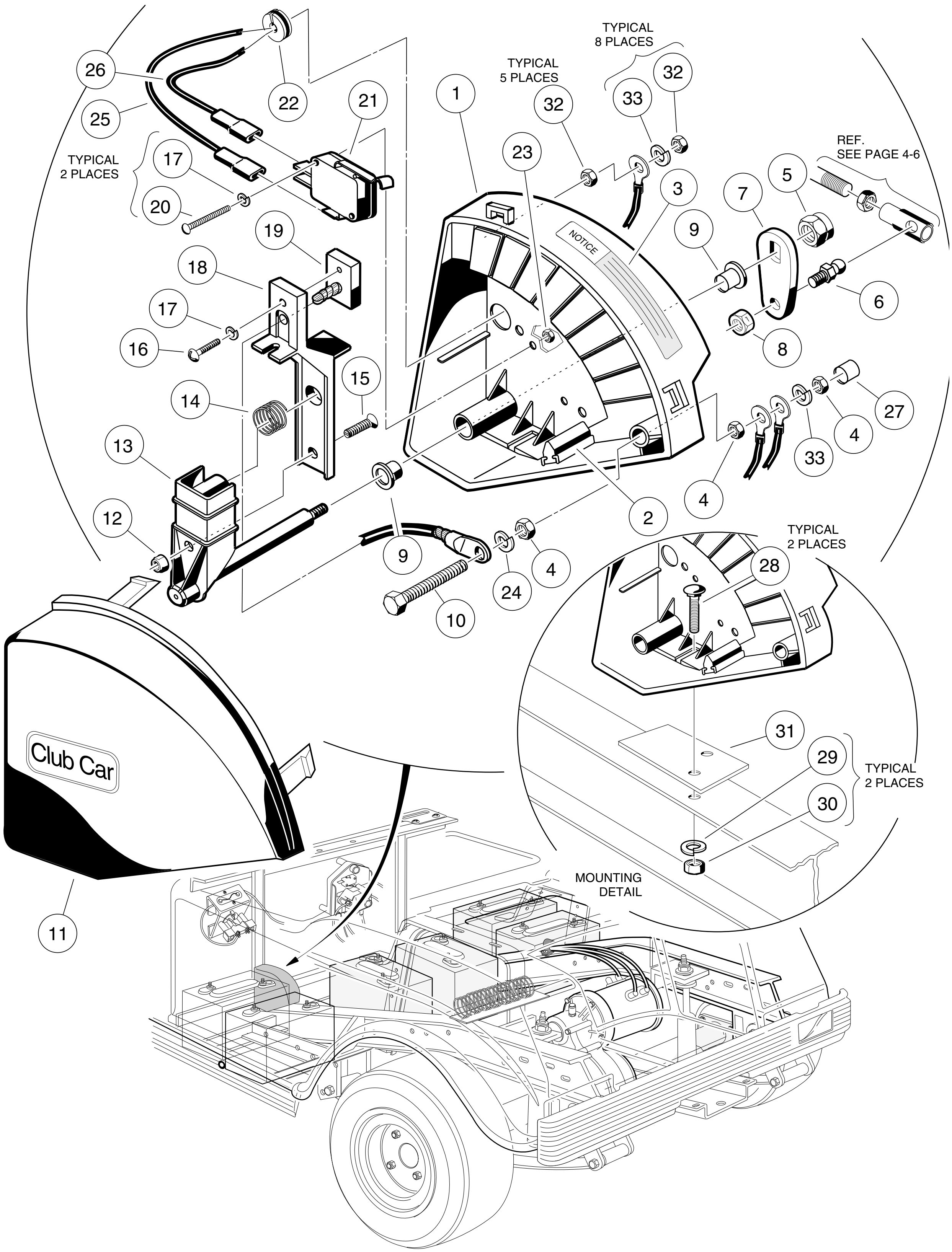
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3
TYPICAL 2 PLACES
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TYPICAL 2 PLACES
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TYPICAL 3 PLACES
11
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TYPICAL 3 PLACES
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14
SEAT SUPPORT FRONT PANEL
TYPICAL 2 PLACES
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TYPICAL 3 PLACES
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7
TYPICAL 3 PLACES
6

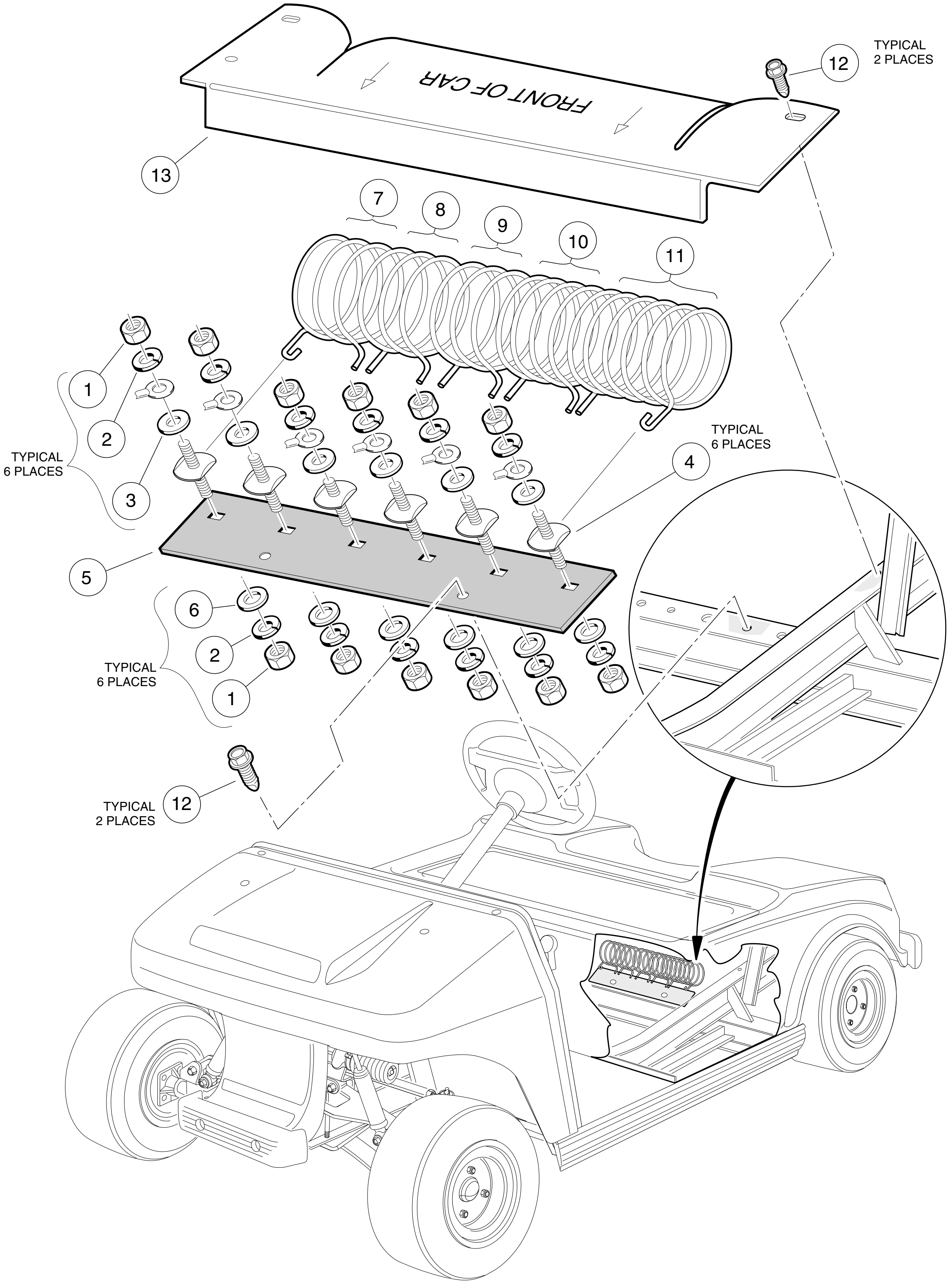
FORWARD/REVERSE SWITCH – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1011997	Assembly, Forward/Reverse Switch (includes items 2 - 5)	1
2	1014808	Switch, Limit	1
3	8057	Nut, Hex, #4-40	2
4	8058	Washer, Lock, #4	2
5	1016896	Screw, Hex Head Machine, #4-40 x 1-1/8	2
6	1028	Nut, Hex, 1/4-20	3
7	451	Washer, Lock, 1/4	3
8	304	Screw, Hex Head Cap, 1/4-20 x 1	3
9	1012987	Handle, Forward/Reverse Switch	1
10	1013198	Screw, Phillips Head Machine, #8-32 x 5/8	1
11	1016845	Screw, Phillips Truss Head, 1/4-20 x 2-1/8	3
12	8233	Nut, Nylon Lock, 1/4-20	3
13	8049	Washer, Internal Tooth Lock, #10	2
14	8450	Screw, Hex Head Machine, #10-24 x 1/2	2
15	1014528	Washer, Plastic, 1/4	3


TYPICAL
8 PLACES
TYPICAL
5 PLACES
TYPICAL
2 PLACES
REF.
SEE PAGE 4-6
NOTICE
TYPICAL
2 PLACES
TYPICAL
2 PLACES
MOUNTING
DETAIL
Club Car
1
2
3
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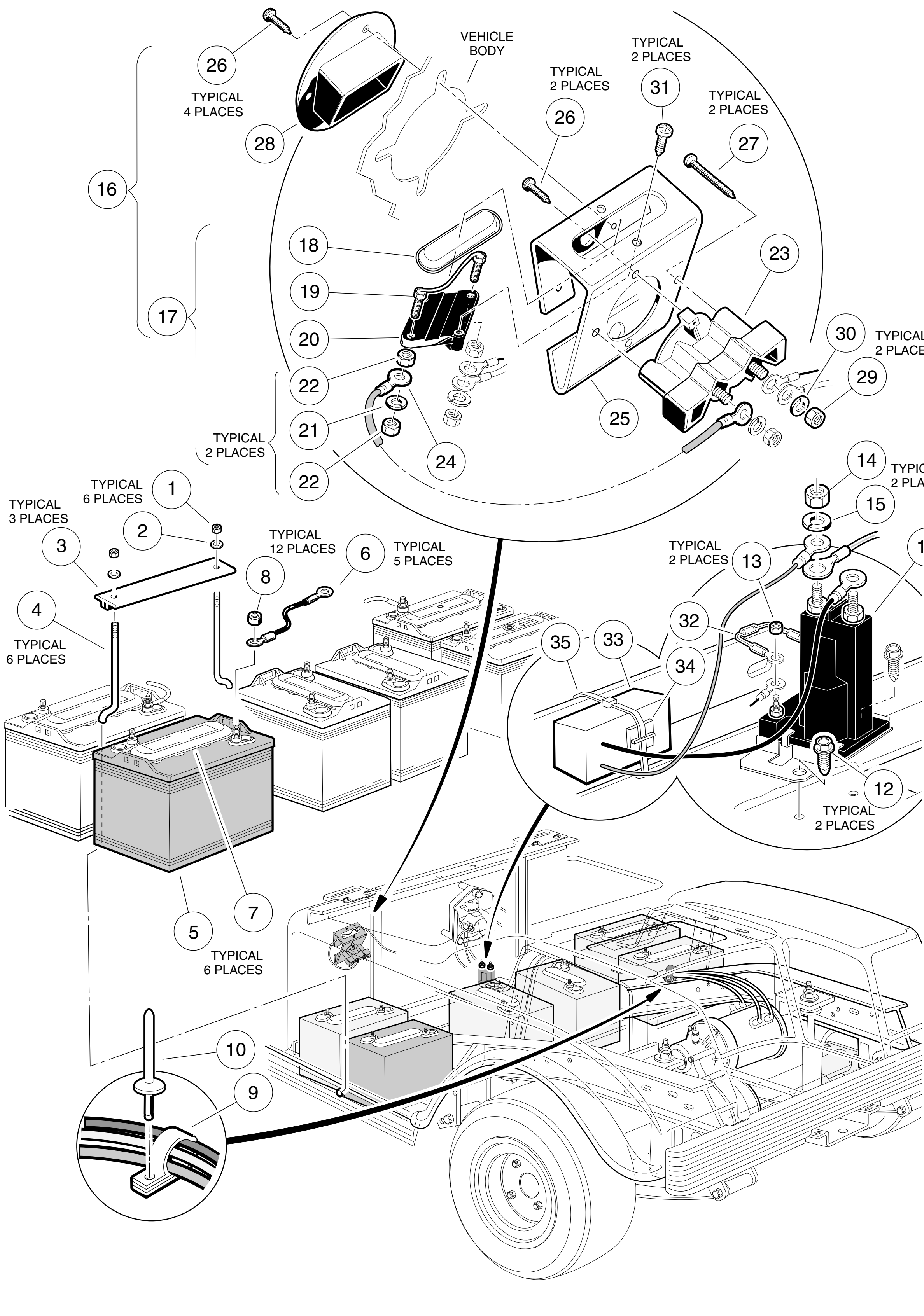
WIPER SWITCH – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	1014735	Assembly, V-Glide Wiper Switch and Resistor Group (includes Wiper Switch Assembly listed below, Resistor and Board Assembly – items 1 - 11 on page 12-11, and connecting wires – items 5 - 11 on page 12-5)	1
	1016140	Assembly, V-Glide Wiper Switch (includes items 1 - 27)	1
1	1014999	Assembly, Wiper Switch Case, 6-Speed (includes items 2 and 3)	1
2	1014414	Bumper, Wiper Switch	1
3	101610901	Decal, Wiper Switch Warning	1
4	1014253	Nut, Brass Hex Jam, 1/4-20	3
5	7473	Nut, Nylon Lock, 5/16-18	1
6	1012353	Stud, Short Ball, 1/4-28	1
7	1014003	Crank, Bell	1
8	8449	Nut, Dimpled Lock, 1/4-28	1
9	1012903	Bearing, Bronze, 3/8 x 1/2	2
10	1014189	Screw, Bronze Hex Head Cap, 1/4-20 x 2	1
11	1013886	Cover, Wiper Switch Case	1
12	1013061	Nut, Nylon Lock, #10-32	1
13	1014017	Carrier, Wiper Switch Arm	1
14	1013998	Spring, Wiper Switch Brush	1
15	1014000	Stud, Wiper Switch Adjusting	1
16	1014019	Screw, Self-Tapping, #4-40 x 3/8	1
17	8058	Washer, Lock, #4	3
18	1013887	Arm, Speed Switch	1
19	1013860	Assembly, Switch Brush	1
20	8056	Screw, Round-Head Machine, #4-40 x 3/4	2
21	1014807	Switch, Limit	1
22	1014010	Grommet, Split	1
23	8057	Nut, Hex, #4-40	2
24	451	Washer, Lock, 1/4	1
25	N/A	Wire Assembly, #18 Black	1
26	N/A	Wire Assembly, #18 Green	1
27	1017692	Cap, Protector	1
28	1014109	Bolt, Round-Head Square-Neck, #10-24 x 1	2
29	1016175	Washer, Lock, #10	2
30	1017	Nut, Hex, #10-24	2
31	101949201	Shim, Wiper Switch	1
32	1028	Nut, Hex, 1/4-20	13
33	451	Washer, Lock, 1/4	9


TYPICAL
2 PLACES
12
FRONT OF CAR
13
7
8
9
10
11
1
2
TYPICAL
6 PLACES
3
TYPICAL
6 PLACES
4
5
6
2
TYPICAL
6 PLACES
1
TYPICAL
2 PLACES
12

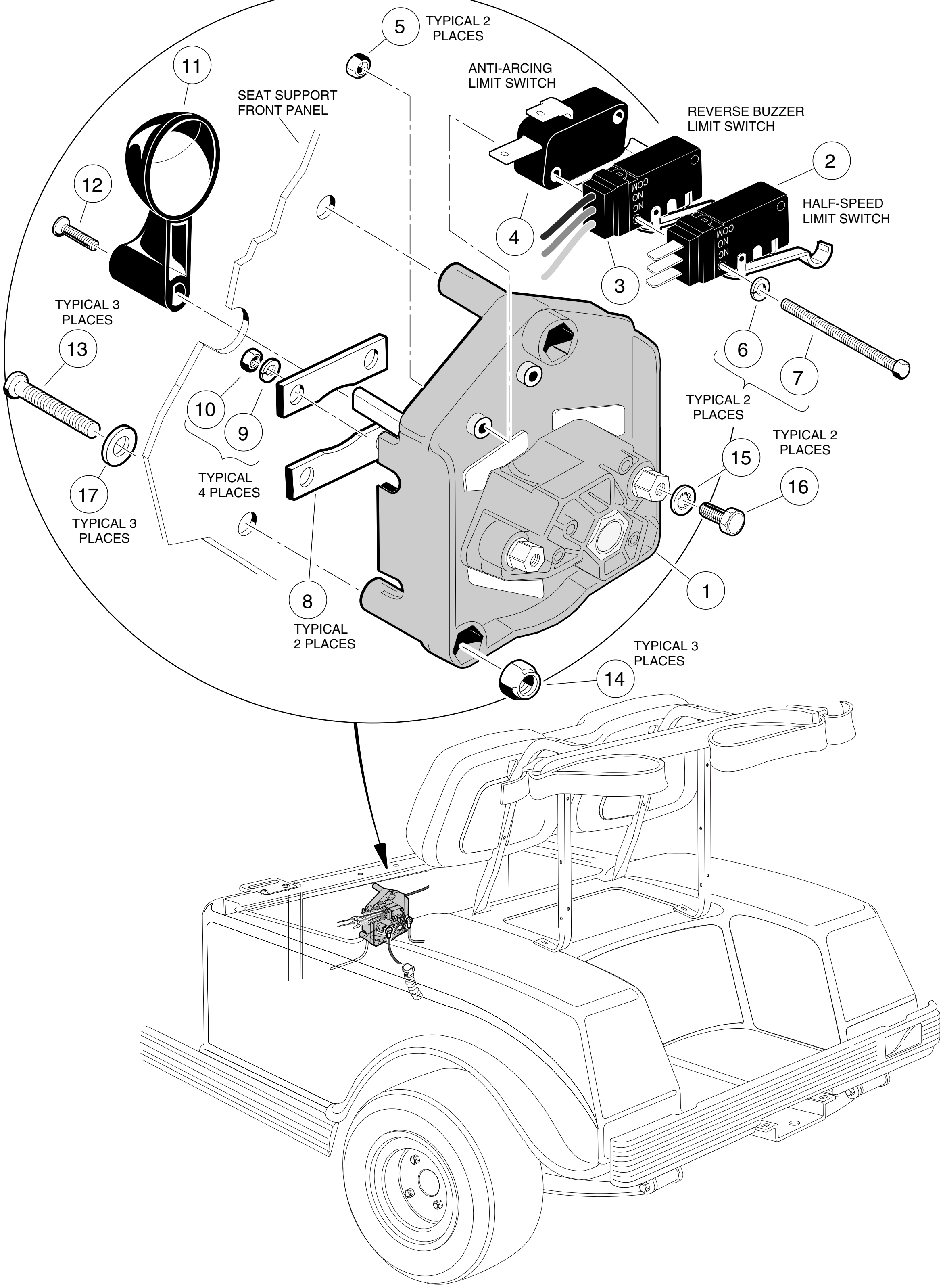
RESISTOR AND BOARD ASSEMBLY – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1028	Nut, Hex, 1/4-20	12
2	451	Washer, Lock, 1/4	12
3	1011931	Washer, Flat, 1/4	6
4	1014045	Stand-Off, Resistor Coil	6
5	1014728	Board, Resistor Mounting	1
6	332	Washer, Flat, 1/4	6
7	1014476	Coil, Resistor, 5th Speed, .182" Wire Diameter, 3-Coil	1
8	1014012	Coil, Resistor, 4th Speed, .162" Wire Diameter, 3-Coil	1
9	1014013	Coil, Resistor, 3rd Speed, .144" Wire Diameter, 3-Coil	1
10	1014014	Coil, Resistor, 2nd Speed, .128" Wire Diameter, 4-Coil	1
11	1014729	Coil, Resistor, 1st Speed, .128" Wire Diameter, 6-Coil	1
12	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	4
13	1013971	Shield, Resistor	1


VEHICLE BODY
TYPICAL 4 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 2 PLACES
TYPICAL 6 PLACES
TYPICAL 3 PLACES
TYPICAL 12 PLACES
TYPICAL 5 PLACES
TYPICAL 2 PLACES
TYPICAL 6 PLACES
TYPICAL 2 PLACES
TYPICAL 6 PLACES
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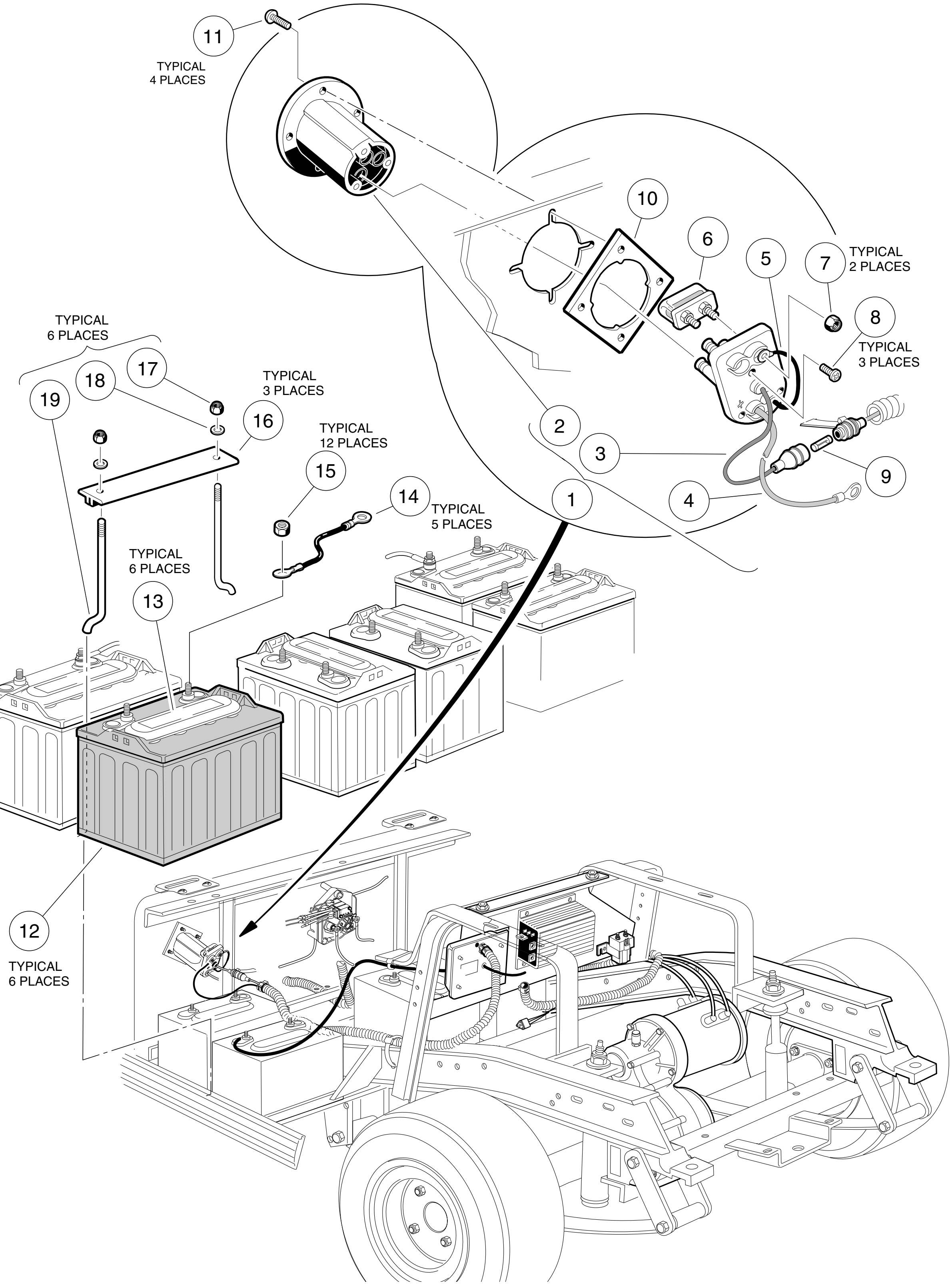
BATTERIES, CHARGER RECEPTACLE, SOLENOID – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1015072	Nut, Nylon Lock, Stainless Steel, 5/6-18	6
2	1011578	Washer, Flat, Type B Wide, 5/16	6
3	101090801	Hold-Down, Battery	3
4	1013683	J-Bolt	6
5	101661601	Battery, 6-Volt	6
5	101661602	Battery, 6-Volt, Dry	6
6	1010958	Wire Assembly, #6 Black	5
7	101831401	Cap, 6-Volt Battery	6
8	1014304	Nut, Hex, Stainless Steel, 5/6-18	12
9	1012022	Clamp, Cable	2
10	1606	Rivet, Pop, 3/16	2
11	101975901	Solenoid, 36-Volt	1
12	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	2
13	7893	Nut, Hex, #10-32	2
14	1010521	Nut, Hex, 5/16-24	2
15	7174	Washer, Lock, 5/16	2
16	101342501	Kit, Fuse and Receptacle (includes items 17 - 31)	1
17	1014516	Kit, Fuse (includes items 18 - 22)	1
18	N/A	Lens, Fuse	1
19	N/A	Fuse, 80-Amp	1
20	N/A	Holder, Fuse	1
21	1016	Washer, Lock, #10	2
22	8797	Nut, Brass, #10-32	4
23	4107	Receptacle, Charger, 2-Prong	1
24	1013092	Wire Assembly, #10 Red	1
25	1013628	Bracket, Fuse and Receptacle Mounting	1
26	8796	Screw, Phillips Pan Head Self-Tapping, #7-19 x 3/4	6
27	8795	Screw, Phillips Pan Head Self-Tapping, #7-19 x 1-3/4	2
28	1013649	Bezel, Charger Receptacle	1
29	8797	Nut, Brass, #10-32	2
30	1016	Washer, Lock, #10	2
31	1013266	Screw, Phillips Pan Head Self-Tapping, #8-18 x 1/2	2
32	1014948	Diode	1
33	102047201	Snubber	1
34	102048301	Base, Mounting	1
35	8639	Tie, Wire	1


5
TYPICAL 2 PLACES
11
ANTI-ARCING LIMIT SWITCH
SEAT SUPPORT FRONT PANEL
REVERSE BUZZER LIMIT SWITCH
2
12
HALF-SPEED LIMIT SWITCH
4
3
TYPICAL 3 PLACES
13
6
7
TYPICAL 2 PLACES
10
9
TYPICAL 2 PLACES
15
16
TYPICAL 4 PLACES
17
TYPICAL 3 PLACES
1
8
TYPICAL 2 PLACES
TYPICAL 3 PLACES
14

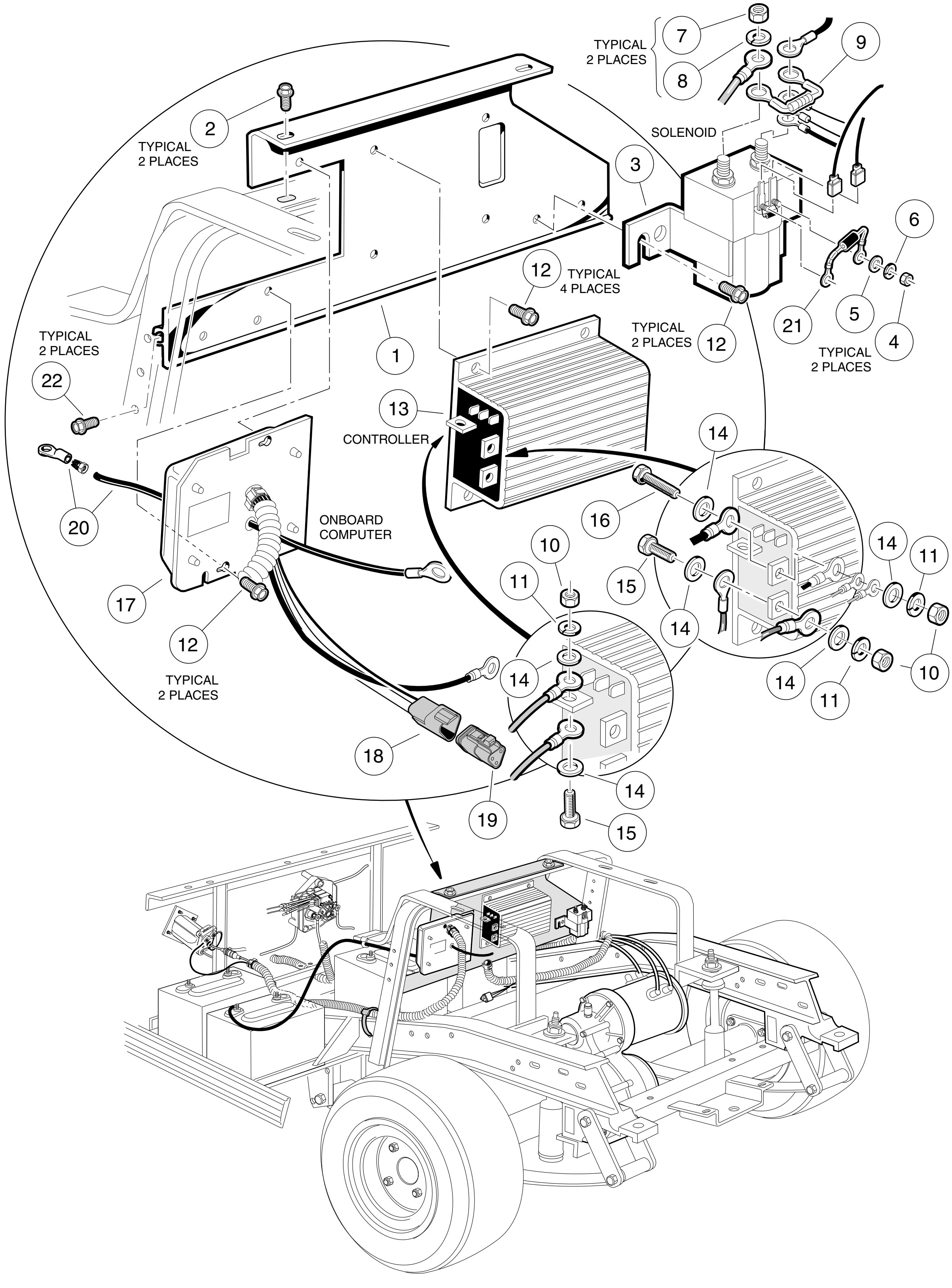
FORWARD/REVERSE SWITCH – POWERDRIVE SYSTEM 48 VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101753005	Assembly, Forward/Reverse Switch (includes items 2 - 10)	1
2	101977101	Switch, Limit, Sealed	1
3	101979101	Switch, Limit, Sealed	1
4	1014808	Switch, Limit	1
5	8057	Nut, Hex, #4-40	2
6	8058	Washer, Lock, #4	2
7	1014871	Screw, Hex Washer Head, #4-40 x 2	2
8	1017799	Bar, Bus	2
9	451	Washer, Lock, 1/4	4
10	1028	Nut, Hex, 1/4-20	4
11	1012987	Handle, Forward/Reverse Switch	1
12	1013198	Screw, Phillips Head Machine, #8-32 x 5/8	1
13	1016845	Screw, Phillips Truss Head, 1/4-20 x 2-1/8	3
14	8233	Nut, Nylon Lock, 1/4-20	3
15	8049	Washer, Internal Tooth Lock, #10	2
16	8450	Screw, Hex Head Machine, #10-24 x 1/2	2
17	1014528	Washer, Plastic, 1/4	3


11
TYPICAL
4 PLACES
10
6
5
7
TYPICAL
2 PLACES
8
TYPICAL
3 PLACES
TYPICAL
6 PLACES
17
18
19
TYPICAL
3 PLACES
16
TYPICAL
12 PLACES
15
14
TYPICAL
5 PLACES
2
3
9
1
4
TYPICAL
6 PLACES
13
12
TYPICAL
6 PLACES

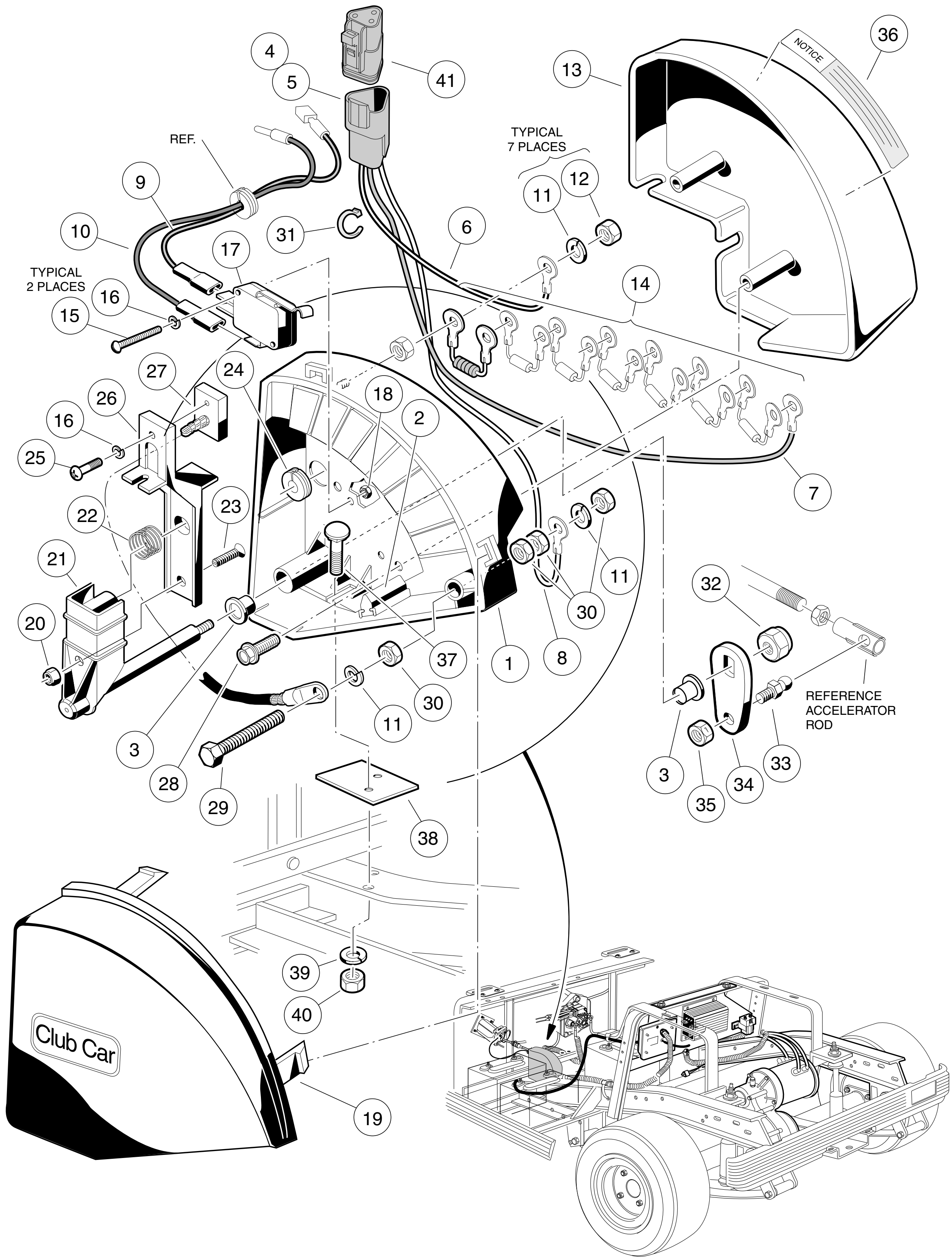
BATTERIES, CHARGER RECEPTACLE – POWERDRIVE SYSTEM 48 VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101802101	Kit, Fuse and Receptacle (includes items 2 - 9)	1
2	101796501	Bezel, Receptacle	1
3	N/A	Wire Assembly, Sense Lead, Gray	1
4	N/A	Wire Assembly, #10 Red	1
5	N/A	Wire Assembly, #10 Black	1
6	101796801	Assembly, Fuse, 48-Volt (includes item 7)	1
7	1013061	Nut, Nylon Lock, #10	2
8	1017705	Screw, Phillips Pan Head, #8 Type AB	3
9	101894901	Fuse, 3/8-Amp	1
10	101801001	Plate, Receptacle Backing	1
11	101832001	Screw, Phillips Pan Head, #7-18 x 3/4	4
12	101797701	Battery, 8-Volt PowerDrive (includes item 13)	6
12	101797702	Battery, 8-Volt PowerDrive, Dry (includes item 13)	6
13	101797801	Cap, Battery, 4-Port Gang	1
14	101795701	Wire Assembly, #6 Black	5
15	1014304	Nut, Hex, Stainless Steel, 5/16-18	12
16	101090801	Hold-Down, Battery	3
17	1015072	Nut, Nylon Lock, Stainless Steel, 5/16-18	6
18	1011578	Washer, Flat, Type B Wide, 5/16	6
19	1013683	J-Bolt	6


TYPICAL
2 PLACES
7
8
9
SOLENOID
2
TYPICAL
2 PLACES
3
6
12
TYPICAL
4 PLACES
TYPICAL
2 PLACES
12
21
5
4
TYPICAL
2 PLACES
TYPICAL
2 PLACES
1
22
13
CONTROLLER
14
16
20
ONBOARD
COMPUTER
10
14
11
11
15
17
14
12
14
11
10
TYPICAL
2 PLACES
14
18
14
19
15

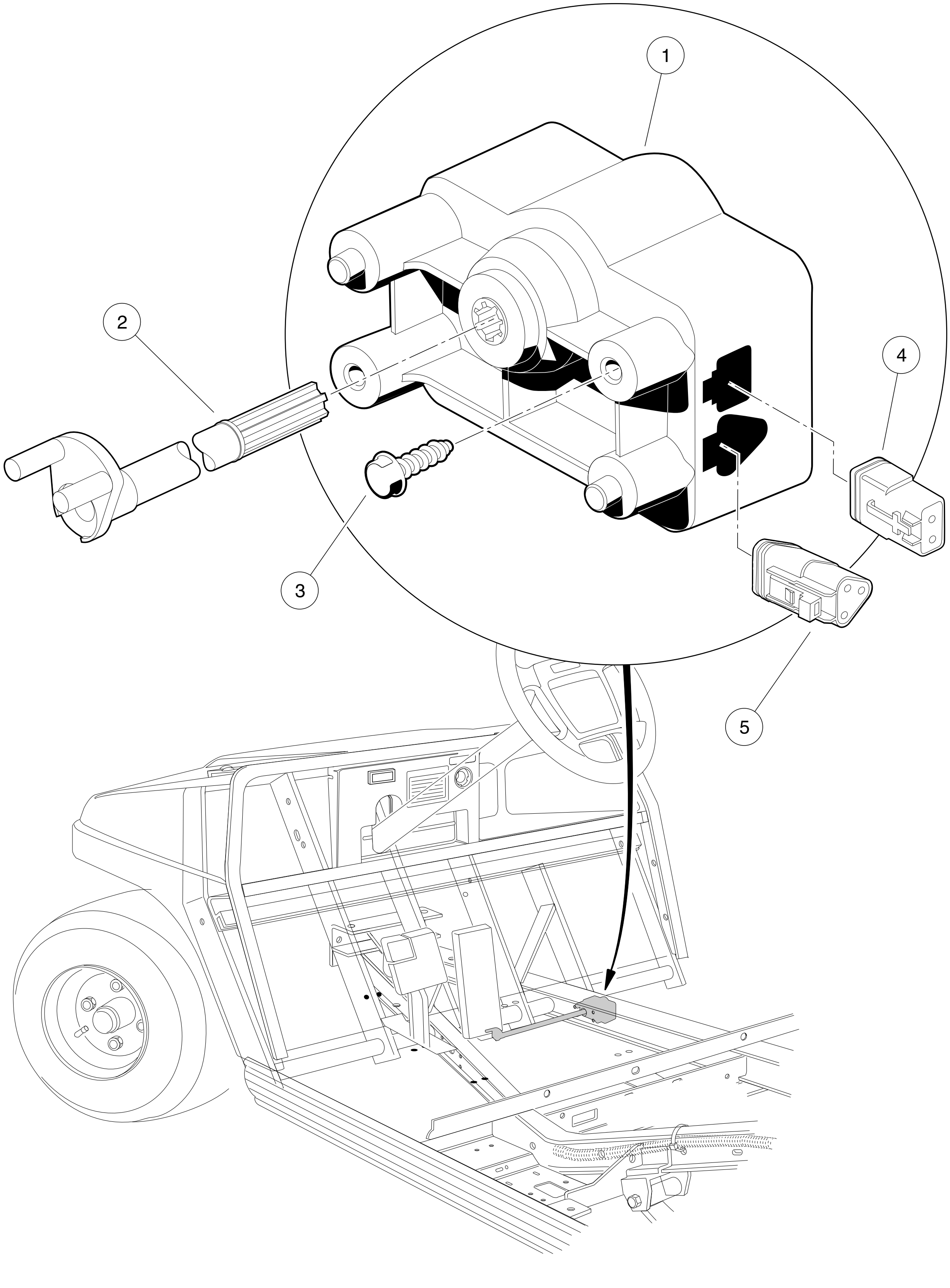
COMPUTER, CONTROLLER, AND SOLENOID – POWERDRIVE SYSTEM 48 VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101965201	Plate, Component Mounting	1
2	1014288	Screw, Thread-Forming, 5/16-18 x 3/4	2
3	101908701	Solenoid, 48-Volt (with diode) (includes items 4 - 8)	1
4	1011558	Nut, Hex, #6-32	2
5	N/A	Washer, Flat	2
6	N/A	Washer, Lock	2
7	1012528	Nut, Hex, M8	2
8	7174	Washer, Lock, 5/16	2
9	1014947	Assembly, Resistor	1
10	1242	Nut, Hex, 5/16-18	3
11	7174	Washer, Lock, 5/16	3
12	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	10
13	101840201	Controller, 48-Volt (225-amp)	1
14	1241	Washer, Flat, 5/16	6
15	7173	Screw, Hex Head Cap, 5/16-18 x 3/4	2
16	1218	Screw, Hex Head Cap, 5/16-18 x 1-1/4	1
17	101909901	Computer, Onboard (includes item 18)	1
18	101942301	Kit, 3-Pin Receptacle	1
19	101920101	Kit, 3-Pin Plug Assembly	1
20	101827801	Kit, Wire and Terminal, #6 Black	1
21	1014948	Assembly, Diode (Service Part replacement for existing diode that comes standard with solenoid)	1
22	101910401	Screw, Thread-Forming, 5/16-18 x 1-1/4	2


4
5
41
36
13
NOTICE
REF.
TYPICAL
7 PLACES
9
11
12
10
31
6
17
TYPICAL
2 PLACES
16
14
15
27
24
18
26
2
16
25
23
22
21
11
32
30
20
37
1
8
30
11
REFERENCE
ACCELERATOR
ROD
3
33
28
3
34
29
35
38
39
40
Club Car
19

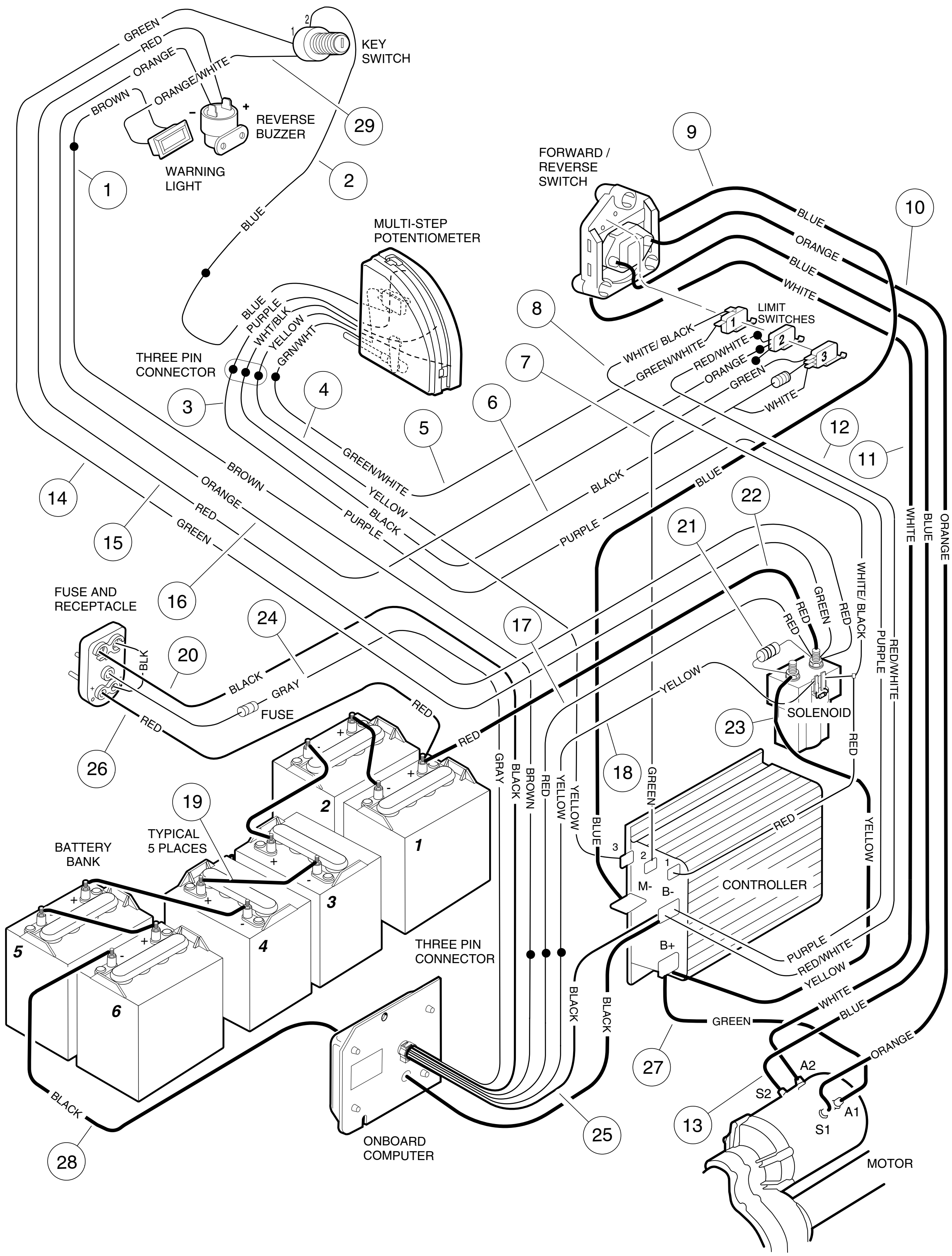
MULTI-STEP POTENTIOMETER – POWERDRIVE SYSTEM 48 AND POWERDRIVE PLUS

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
		2001 DS PowerDrive System 48 and PowerDrive Plus vehicles with serial numbers prior to AA0112-001470 use a multi-step potentiometer (shown here). For vehicles with serial numbers greater than AA0112-001470, see page 23.	
	101932001	Assembly, Wiper Switch (includes items 1 - 36)	1
1	1014999	Assembly, Wiper Switch Case, 6-Speed (includes items 2 and 3)	1
2	1014414	Bumper, Wiper Switch	1
3	1012903	Bearing, Bronze	2
4	101932801	Assembly, 3-Wire and Receptacle (includes items 5 - 8)	1
5	101942301	Kit, 3-Pin Receptacle	1
6	N/A	Wire Assembly, #18 White/Black	1
7	N/A	Wire Assembly, #18 Purple	1
8	N/A	Wire Assembly, #18 Yellow	1
9	N/A	Wire Assembly, #18 Green/White	1
10	N/A	Wire Assembly, #18 Blue	1
11	451	Washer, Lock, 1/4	9
12	1028	Nut, Hex, 1/4-20	7
13	101946901	Protector, Wiper Switch Resistor	1
14	101971101	Kit, Resistor Assembly	1
15	8056	Screw, Round Head Machine, #4-40 x 3/4	2
16	8058	Washer, Lock, #4	3
17	1014807	Switch, Limit	1
18	8057	Nut, Hex, #4-40	2
19	1013886	Cover, Wiper Switch	1
20	1013061	Nut, Nylon Lock, #10-32	1
21	1014017	Carrier, Wiper Switch Arm	1
22	1013998	Spring, Wiper Switch Brush	1
23	1014000	Stud, Wiper Switch Adjusting	1
24	1014010	Grommet, Split	1
25	1014019	Screw, Self-Tapping, #4-40 x 3/8	1
26	1013887	Arm, Speed Switch	1
27	1013860	Assembly, Switch Brush	1
28	1013461	Screw, Hex Head Hi-Lo, #10-16 x 1/2	2
29	1014189	Screw, Hex Head Cap, 1/4-20 x 2	1
30	1014253	Nut, Brass Hex Jam, 1/4-20	4
31	8990	Tie, Wire	1
32	7473	Nut, Nylon Lock, 5/16-18	1
33	1012353	Stud, Short Ball, 1/4-28	1
34	1014003	Crank, Bell	1
35	8449	Nut, Dimpled Lock, 1/4-28	1
36	101610901	Decal, Wiper Switch Warning	1
37	1014109	Bolt, Round-Head Square-Neck, #10-24 x 1	2
38	101949201	Shim, Wiper Switch	1
39	1016175	Washer, Lock, #10	2
40	1017	Nut, Hex, #10-24	2
41	101920101	Kit, 3-Pin Plug Assembly	1


1
2
3
4
5

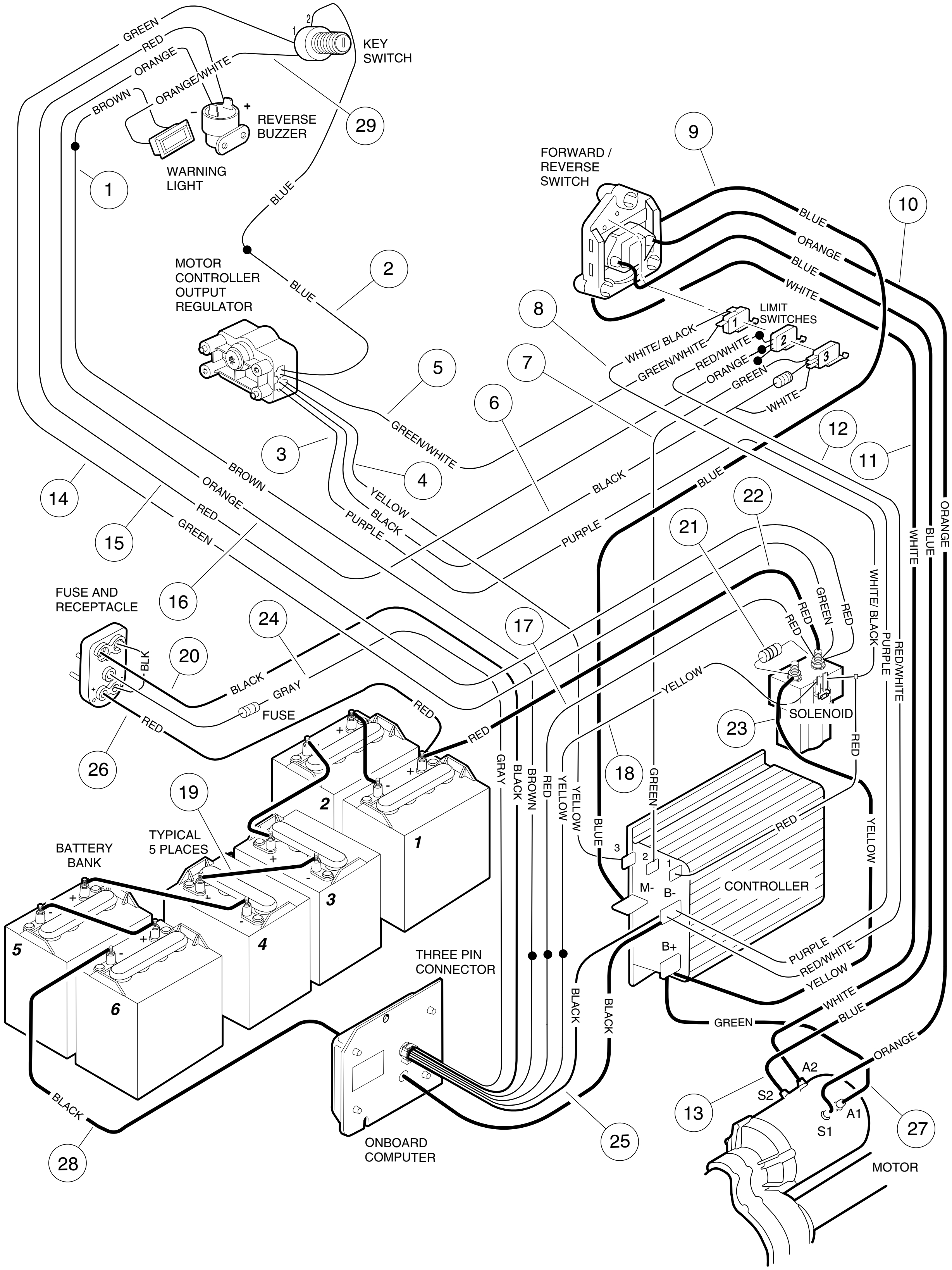
MOTOR CONTROLLER OUTPUT REGULATOR (MCOR)

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
		The 2001 DS PowerDrive System 48 and PowerDrive Plus vehicles with serial numbers AA0112-001470 and greater use a motor controller output regulator (MCOR) (shown here). For vehicles with serial numbers lower than AA0112-001470, see page 21.	
		All 2002 DS PowerDrive System 48 and IQ System vehicles are equipped with a motor controller output regulator (MCOR) (shown here).	
1	102101101	Regulator, Motor Controller Output (MCOR)	1
2	102101001	Bar, Drive	1
3	1015752	Screw, Hex Head, Hi-Lo, #12-16 x 5/8	2
4	101936801	Kit, 2-Pin Plug Assembly	1
5	101920101	Kit, 3-Pin Plug Assembly	1


KEY SWITCH
REVERSE BUZZER
WARNING LIGHT
FORWARD / REVERSE SWITCH
MULTI-STEP POTENTIOMETER
THREE PIN CONNECTOR
LIMIT SWITCHES
FUSE AND RECEPTACLE
FUSE
SOLENOID
CONTROLLER
BATTERY BANK
TYPICAL 5 PLACES
THREE PIN CONNECTOR
ONBOARD COMPUTER
MOTOR
M-
B-
B+
A1
A2
S1
S2
GREEN
RED
ORANGE
ORANGE/WHITE
BROWN
BLUE
PURPLE
WHT/BLK
YELLOW
GRN/WHT
GREEN/WHITE
BLACK
WHITE
WHITE/ BLACK
RED/WHITE
GRAY
BLK
1
2
3
4
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WIRING – POWERDRIVE SYSTEM 48 VEHICLE WITH MULTI-STEP POTENTIOMETER

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	102052503	Wire Harness (includes items 1 - 18)	1
1	N/A	Wire Assembly, #18 Brown	1
2	N/A	Wire Assembly, #18 Blue	1
3	N/A	Wire Assembly, #18 Purple	1
4	N/A	Wire Assembly, #18 Yellow	1
5	N/A	Wire Assembly, #18 Green/White	1
6	101883002	Wire Assembly, #18 Black (includes resistor and #18 white wire)	1
7	N/A	Wire Assembly, #18 Green	1
8	N/A	Wire Assembly, #18 White/Black and #18 Red	1
9	101901401	Wire Assembly, #6 Blue	1
10	101901201	Wire Assembly, #6 Orange	1
11	101901501	Wire Assembly, #6 White	1
12	N/A	Wire Assembly, #18 Red/White	1
13	101901301	Wire Assembly, #6 Blue	1
14	N/A	Wire Assembly, #18 Green	1
15	N/A	Wire Assembly, #18 Red	1
16	N/A	Wire Assembly, #18 Orange	1
17	N/A	Wire Assembly, #18 Red	1
18	N/A	Wire Assembly, #18 Yellow	1
19	101795701	Wire Assembly, #6 Black	5
20	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
21	1014947	Assembly, Resistor	1
22	101902801	Wire Assembly, #6 Red	1
23	101903001	Wire Assembly, #6 Yellow	1
24	N/A	Wire Assembly, #18 Gray (part of onboard computer assembly)	1
25	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
26	N/A	Wire Assembly, #10 Red (part of fuse and receptacle assembly)	1
27	101902901	Wire Assembly, #6 Green	1
28	N/A	Wire Assembly, #6 Black (part of onboard computer assembly)	1
29	N/A	Wire Assembly, #18 Orange/White (part of battery warning light)	1

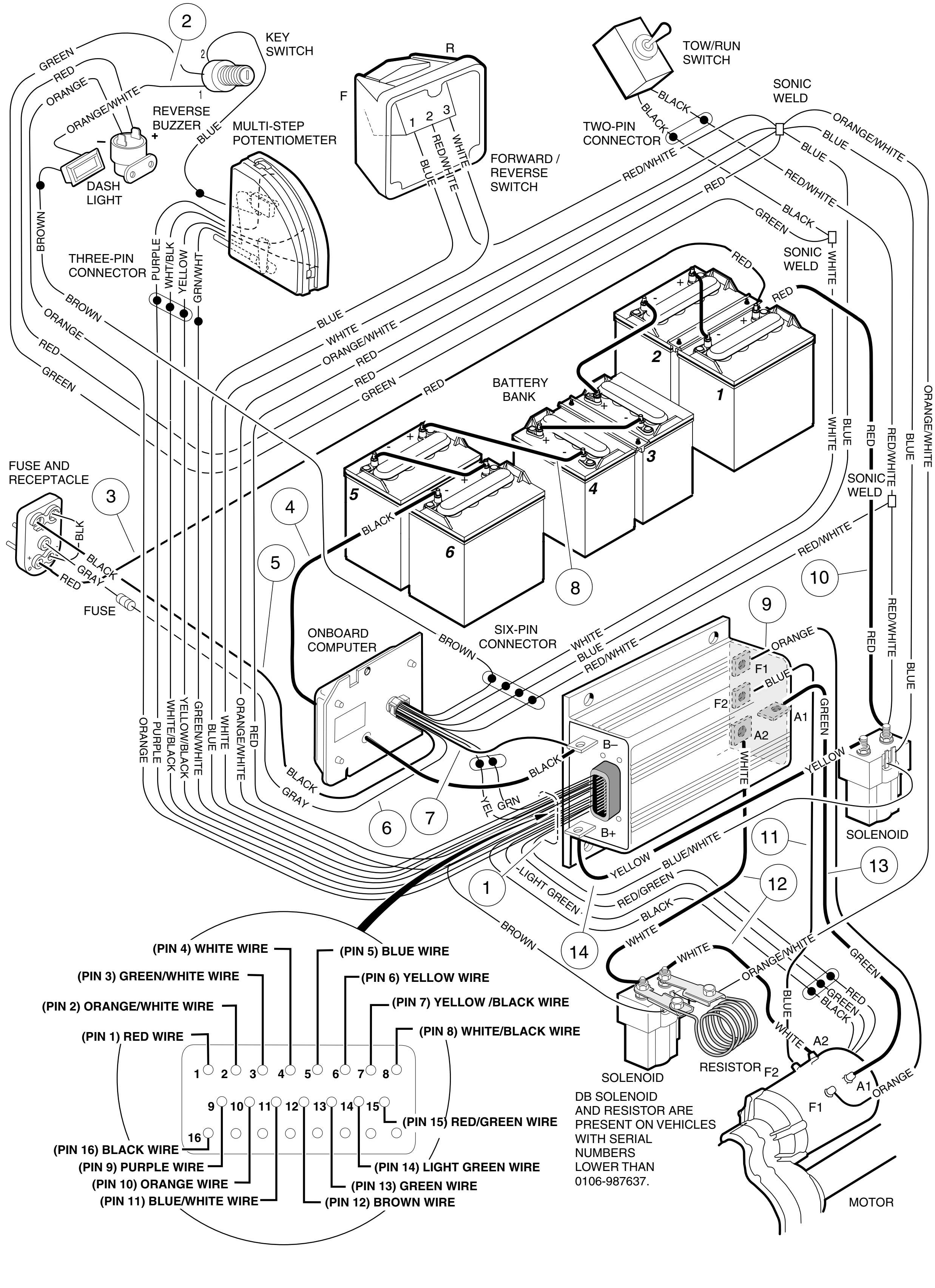

KEY SWITCH
REVERSE BUZZER
WARNING LIGHT
MOTOR CONTROLLER OUTPUT REGULATOR
FORWARD / REVERSE SWITCH
LIMIT SWITCHES
FUSE AND RECEPTACLE
FUSE
SOLENOID
CONTROLLER
BATTERY BANK
TYPICAL 5 PLACES
THREE PIN CONNECTOR
ONBOARD COMPUTER
MOTOR
GREEN
RED
ORANGE
ORANGE/WHITE
BROWN
BLUE
WHITE
WHITE/ BLACK
GREEN/WHITE
RED/WHITE
GREEN/WHITE
YELLOW
BLACK
PURPLE
GRAY
BLK
M-
B-
B+
A1
A2
S1
S2
1
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WIRING – POWERDRIVE SYSTEM 48 VEHICLE WITH MOTOR CONTROLLER OUTPUT REGULATOR (MCOR)

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	102162101	Wire Harness (includes items 1 - 18)	1
1	N/A	Wire Assembly, #18 Brown	1
2	N/A	Wire Assembly, #18 Blue	1
3	N/A	Wire Assembly, #18 Purple	1
4	N/A	Wire Assembly, #18 Yellow	1
5	N/A	Wire Assembly, #18 Green/White	1
6	101883002	Wire Assembly, #18 Black (includes resistor and #18 white wire)	1
7	N/A	Wire Assembly, #18 Green	1
8	N/A	Wire Assembly, #18 White/Black and #18 Red	1
9	101901401	Wire Assembly, #6 Blue	1
10	101901201	Wire Assembly, #6 Orange	1
11	101901501	Wire Assembly, #6 White	1
12	N/A	Wire Assembly, #18 Red/White	1
13	101901301	Wire Assembly, #6 Blue	1
14	N/A	Wire Assembly, #18 Green	1
15	N/A	Wire Assembly, #18 Red	1
16	N/A	Wire Assembly, #18 Orange	1
17	N/A	Wire Assembly, #18 Red	1
18	N/A	Wire Assembly, #18 Yellow	1
19	101795701	Wire Assembly, #6 Black	5
20	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
21	1014947	Assembly, Resistor	1
22	101902801	Wire Assembly, #6 Red	1
23	101903001	Wire Assembly, #6 Yellow	1
24	N/A	Wire Assembly, #18 Gray (part of onboard computer assembly)	1
25	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
26	N/A	Wire Assembly, #10 Red (part of fuse and receptacle assembly)	1
27	101902901	Wire Assembly, #6 Green	1
28	N/A	Wire Assembly, #6 Black (part of onboard computer assembly)	1
29	N/A	Wire Assembly, #18 Orange/White (part of battery warning light)	1

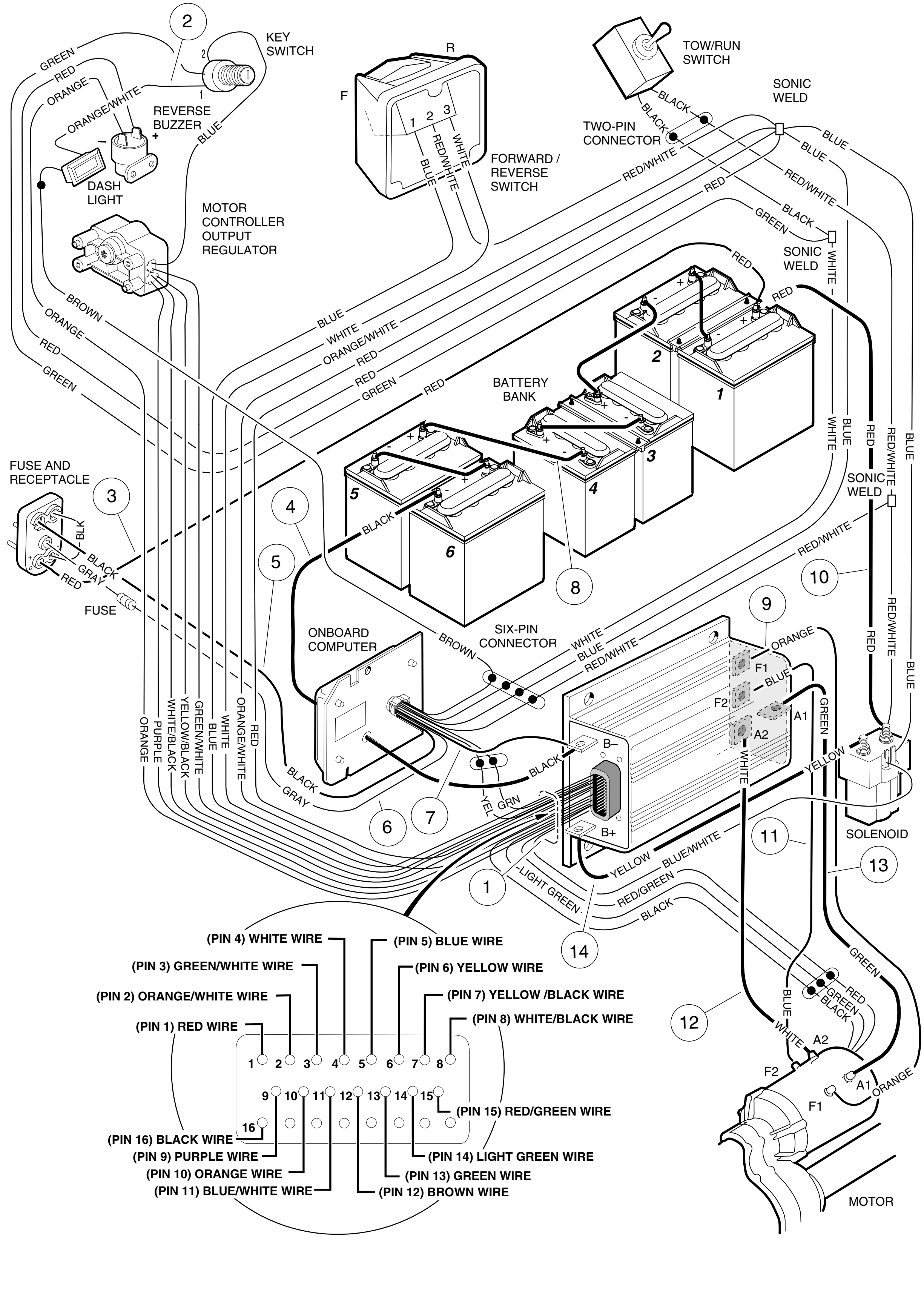
12

E


KEY SWITCH
REVERSE BUZZER
MULTI-STEP POTENTIOMETER
DASH LIGHT
THREE-PIN CONNECTOR
F
R
FORWARD / REVERSE SWITCH
TOW/RUN SWITCH
TWO-PIN CONNECTOR
SONIC WELD
SONIC WELD
SONIC WELD
BATTERY BANK
FUSE AND RECEPTACLE
FUSE
ONBOARD COMPUTER
SIX-PIN CONNECTOR
F1
F2
A1
A2
B–
B+
SOLENOID
SOLENOID
RESISTOR
MOTOR
DB SOLENOID AND RESISTOR ARE PRESENT ON VEHICLES WITH SERIAL NUMBERS LOWER THAN 0106-987637.
GREEN
RED
ORANGE
ORANGE/WHITE
BLUE
BROWN
PURPLE
WHT/BLK
YELLOW
GRN/WHT
WHITE
RED/WHITE
BLACK
GRAY
BLK
LIGHT GREEN
RED/GREEN
BLUE/WHITE
YEL
GRN
(PIN 1) RED WIRE
(PIN 2) ORANGE/WHITE WIRE
(PIN 3) GREEN/WHITE WIRE
(PIN 4) WHITE WIRE
(PIN 5) BLUE WIRE
(PIN 6) YELLOW WIRE
(PIN 7) YELLOW /BLACK WIRE
(PIN 8) WHITE/BLACK WIRE
(PIN 9) PURPLE WIRE
(PIN 10) ORANGE WIRE
(PIN 11) BLUE/WHITE WIRE
(PIN 12) BROWN WIRE
(PIN 13) GREEN WIRE
(PIN 14) LIGHT GREEN WIRE
(PIN 15) RED/GREEN WIRE
(PIN 16) BLACK WIRE

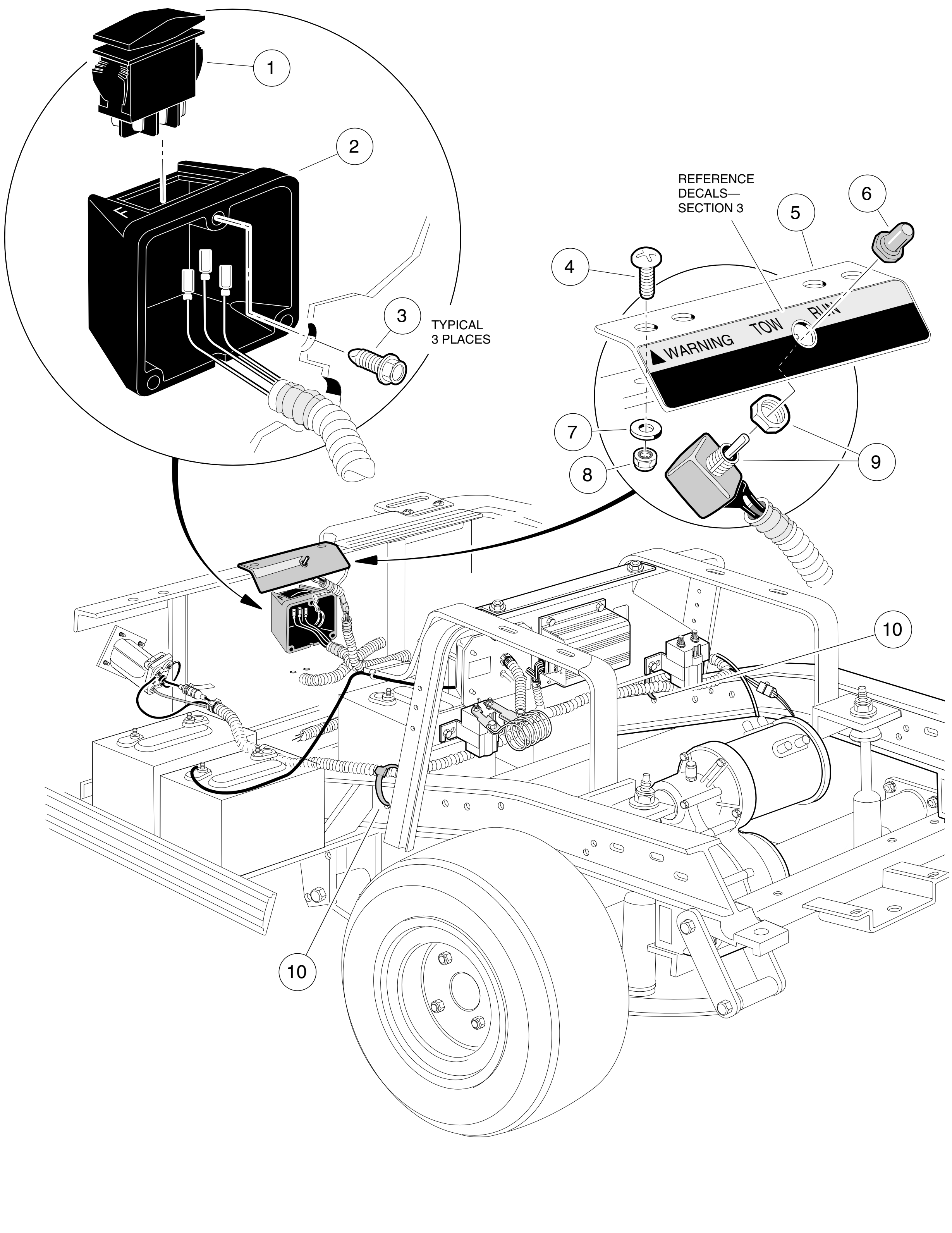
WIRING – POWERDRIVE PLUS VEHICLE WITH MULTI-STEP POTENTIOMETER

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101964802	Wire Harness	1
2	N/A	Wire Assembly, #18 Orange/White (part of battery light)	1
3	N/A	Wire Assembly, #10 Red (part of fuse and receptacle assembly)	1
4	N/A	Wire Assembly, #6 Black	1
5	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
6	N/A	Wire Assembly, #18 Gray (part of onboard computer assembly)	1
7	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
8	101795701	Wire Assembly, #6 Black	5
9	101853502	Wire Assembly, #10 Orange	1
10	101902801	Wire Assembly, #6 Red	1
11	101853602	Wire Assembly, #10 Blue	1
12	101968701	Wire Assembly, #6 White	2
13	101902901	Wire Assembly, #6 Green	1
14	101920001	Wire Assembly, #6 Yellow	1


KEY SWITCH
REVERSE BUZZER
DASH LIGHT
MOTOR CONTROLLER OUTPUT REGULATOR
FORWARD / REVERSE SWITCH
TOW/RUN SWITCH
TWO-PIN CONNECTOR
SONIC WELD
BATTERY BANK
FUSE AND RECEPTACLE
FUSE
ONBOARD COMPUTER
SIX-PIN CONNECTOR
SOLENOID
MOTOR
(PIN 1) RED WIRE
(PIN 2) ORANGE/WHITE WIRE
(PIN 3) GREEN/WHITE WIRE
(PIN 4) WHITE WIRE
(PIN 5) BLUE WIRE
(PIN 6) YELLOW WIRE
(PIN 7) YELLOW /BLACK WIRE
(PIN 8) WHITE/BLACK WIRE
(PIN 9) PURPLE WIRE
(PIN 10) ORANGE WIRE
(PIN 11) BLUE/WHITE WIRE
(PIN 12) BROWN WIRE
(PIN 13) GREEN WIRE
(PIN 14) LIGHT GREEN WIRE
(PIN 15) RED/GREEN WIRE
(PIN 16) BLACK WIRE

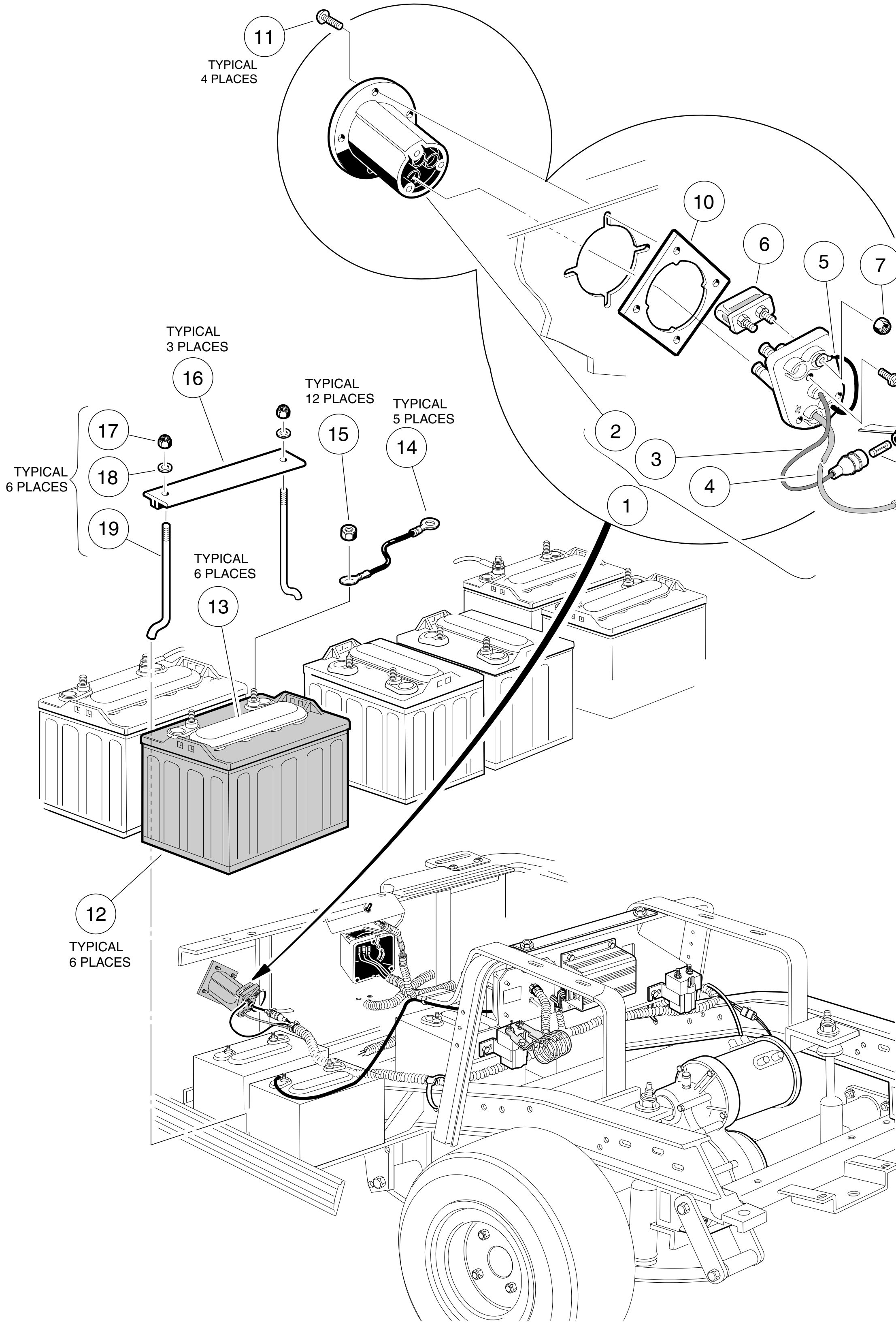
WIRING – POWERDRIVE PLUS VEHICLE WITH MOTOR CONTROLLER OUTPUT REGULATOR (MCOR)

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	102161801	Wire Harness	1
2	N/A	Wire Assembly, #18 Orange/White (part of battery light)	1
3	N/A	Wire Assembly, #10 Red (part of fuse and receptacle assembly)	1
4	N/A	Wire Assembly, #6 Black	1
5	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
6	N/A	Wire Assembly, #18 Gray (part of onboard computer assembly)	1
7	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
8	101795701	Wire Assembly, #6 Black	5
9	101853502	Wire Assembly, #10 Orange	1
10	101902801	Wire Assembly, #6 Red	1
11	101853602	Wire Assembly, #10 Blue	1
12	101968701	Wire Assembly, #6 White	2
13	101902901	Wire Assembly, #6 Green	1
14	101920001	Wire Assembly, #6 Yellow	1


1
2
3
TYPICAL
3 PLACES
REFERENCE
DECALS—
SECTION 3
4
5
6
WARNING
TOW
RUN
7
8
9
10
10

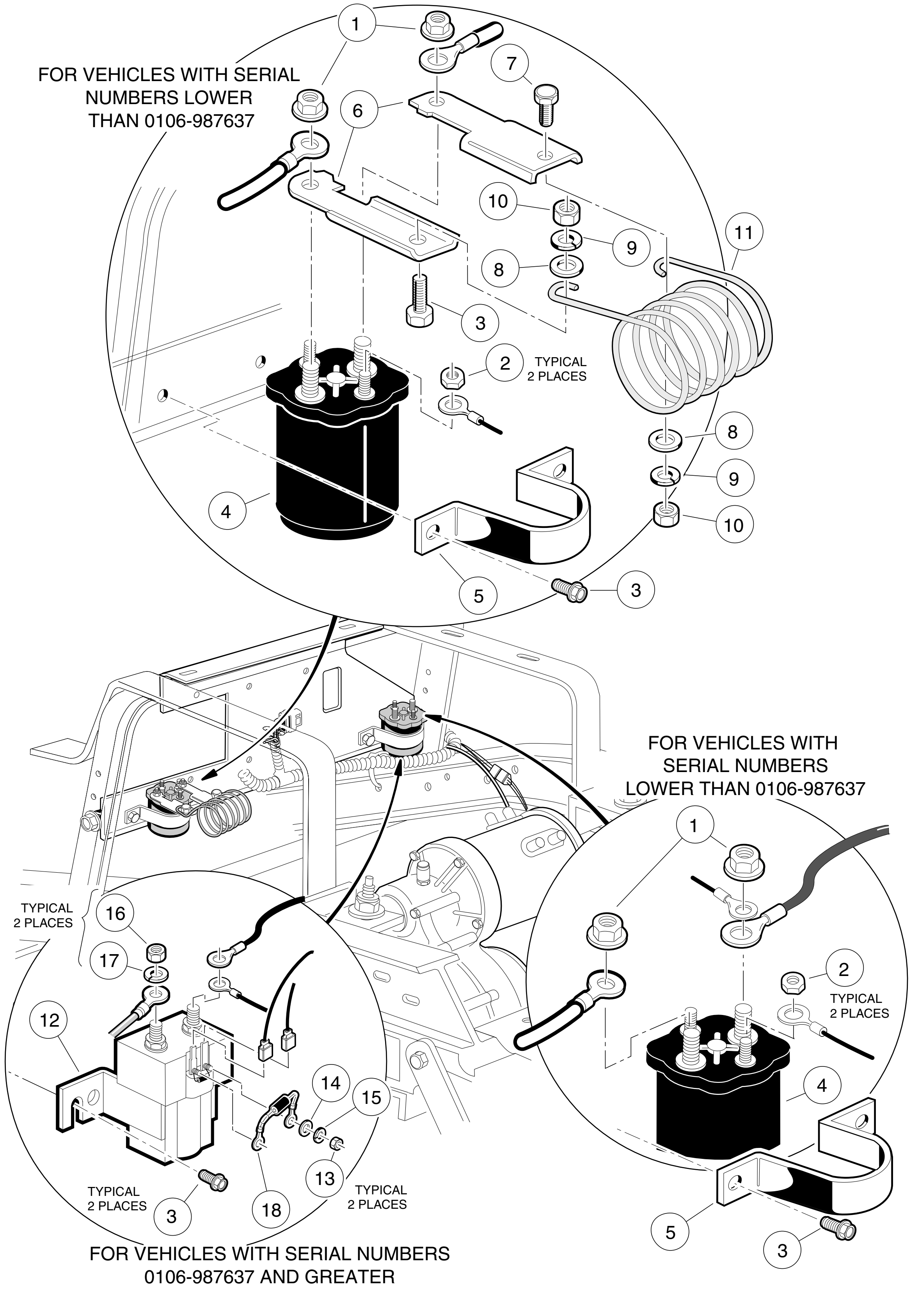
FORWARD/REVERSE SWITCH, TOW/RUN SWITCH – POWERDRIVE PLUS VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101856001	Switch, Forward/Reverse	1
2	101855001	Case, Forward/Reverse Switch	1
3	101856101	Screw, Hi-Lo Hex Head, 1/4-15 x 1/2	3
4	8248	Screw, Truss Phillips Machine, 1/4-20 x 3/4	2
5	101922501	Bracket, Tow/Run Switch (without decal)	1
6	101908401	Boot, Tow/Run Switch (with nut)	1
7	332	Washer, Flat, 1/4	2
8	8233	Nut, Nylon Lock, 1/4-20	2
9	101908101	Switch, Tow/Run	1
10	8990	Tie, Wire	A/R


11
TYPICAL
4 PLACES
10
TYPICAL
2 PLACES
6
5
7
TYPICAL
3 PLACES
8
TYPICAL
3 PLACES
16
TYPICAL
12 PLACES
TYPICAL
5 PLACES
17
15
14
2
3
TYPICAL
6 PLACES
18
4
9
1
19
TYPICAL
6 PLACES
13
12
TYPICAL
6 PLACES

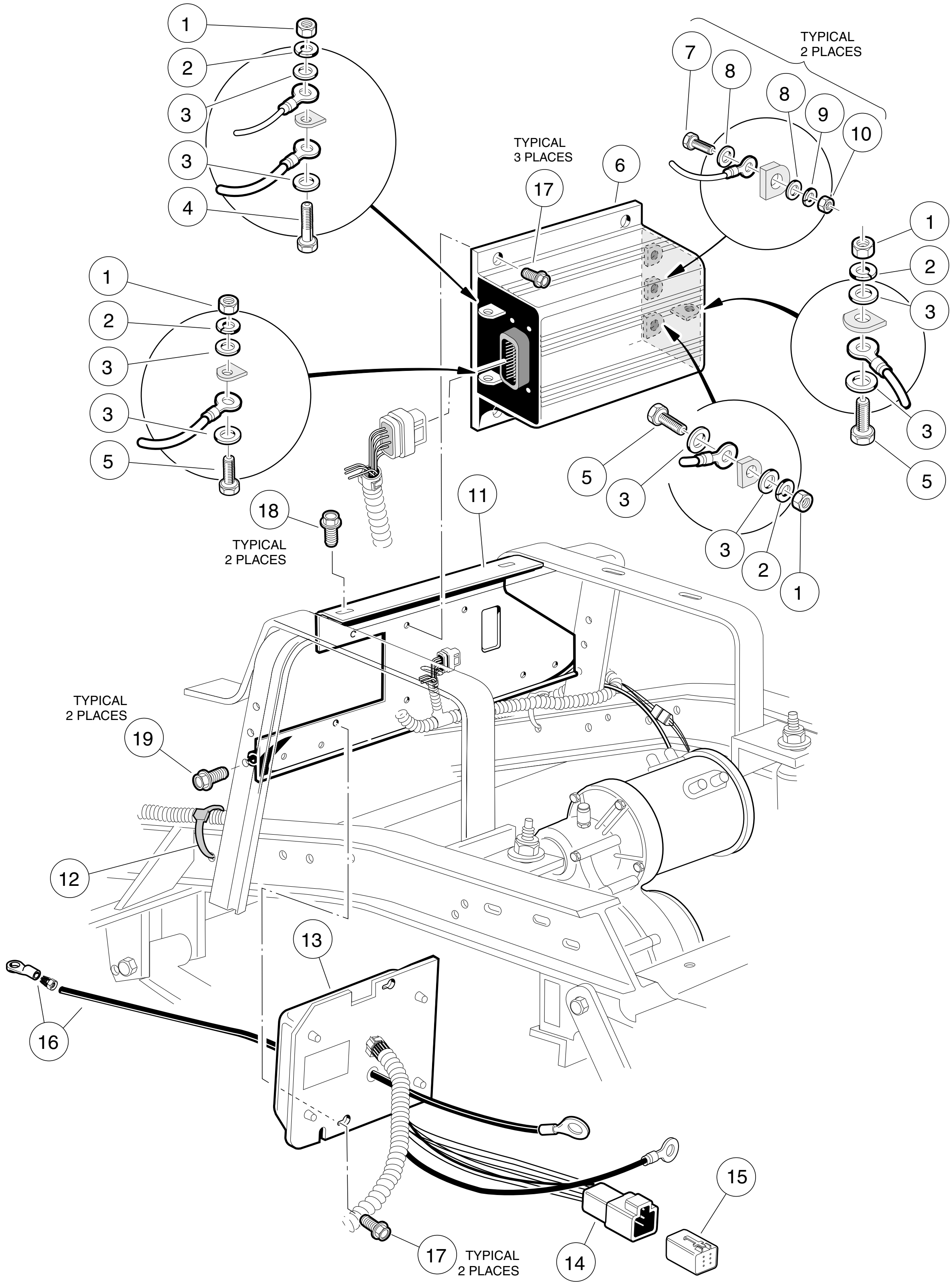
BATTERIES, CHARGER RECEPTACLE – POWERDRIVE PLUS VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101802101	Kit, Fuse and Receptacle (includes items 2 - 9)	1
2	101796501	Bezel, Receptacle	1
3	N/A	Wire Assembly, Sense Lead, Gray	1
4	N/A	Wire Assembly, #10 Red	1
5	N/A	Wire Assembly, #10 Black	1
6	101796801	Assembly, Fuse, 48-Volt (includes item 7)	1
7	1013061	Nut, Nylon Lock, #10	2
8	1017705	Screw, Phillips Pan Head, #8 Type AB	3
9	101894901	Fuse, 3/8-Amp	1
10	101801001	Plate, Receptacle Backing	1
11	101832001	Screw, Phillips Pan Head, #7-18 x 3/4	4
12	101797701	Battery, 8-Volt PowerDrive (includes item 13)	6
12	101797702	Battery, 8-Volt PowerDrive, Dry (includes item 13)	6
13	101797801	Cap, Battery, 4-Port Gang	1
14	101795701	Wire Assembly, #6 Black	5
15	1014304	Nut, Hex, Stainless Steel, 5/16-18	12
16	101090801	Hold-Down, Battery	3
17	1015072	Nut, Nylon Lock, Stainless Steel, 5/16-18	6
18	1011578	Washer, Flat, Type B Wide, 5/16	6
19	1013683	J-Bolt	6


FOR VEHICLES WITH SERIAL NUMBERS LOWER THAN 0106-987637
1
7
6
10
9
11
8
3
2
TYPICAL 2 PLACES
4
5
FOR VEHICLES WITH SERIAL NUMBERS LOWER THAN 0106-987637
TYPICAL 2 PLACES
16
17
12
14
15
13
18
FOR VEHICLES WITH SERIAL NUMBERS 0106-987637 AND GREATER

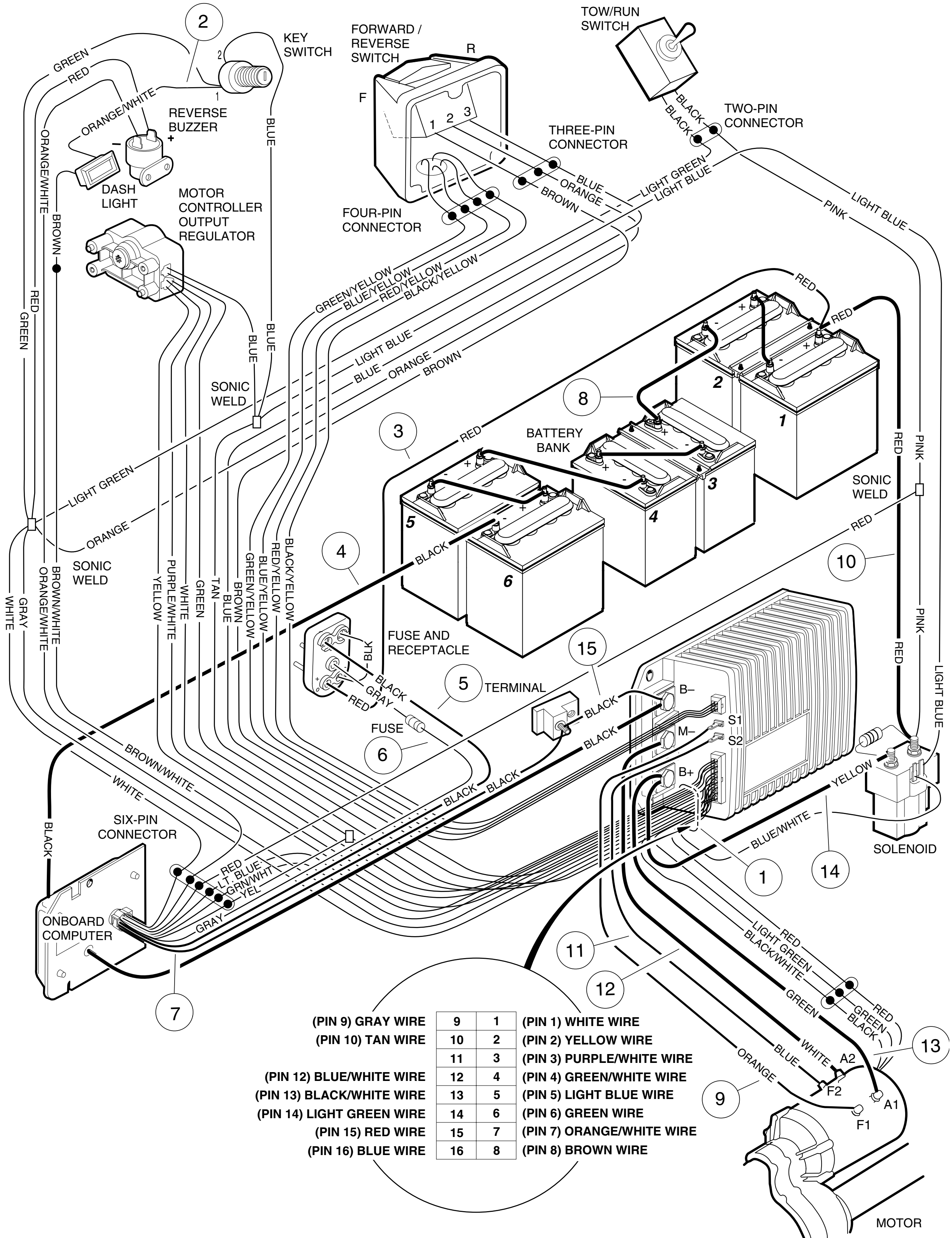
SOLENOIDS, ENERGY DISPLACEMENT MODULE – POWERDRIVE PLUS VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1017237	Nut, Hex Flanged Lock, 5/16-24	4
2	1018028	Nut, Serrated, #10-32	4
3	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	4
4	101883601	Solenoid, 48-Volt (with mounting bracket)	2
5	101957901	Bracket, Mounting	2
6	101888201	Tab, Mounting	2
7	1015069	Screw, Hex Head Cap, 1/4-20 x 3/4	2
8	1011931	Washer, Flat, 1/4	2
9	451	Washer, Lock, 1/4	2
10	1028	Nut, Hex, 1/4-20	2
11	101964401	Coil, Energy Displacement	1
12	101908701	Solenoid, 48-Volt (with diode) (includes items 13 - 17)	1
13	1016545	Nut, Hex, M5 x .8	2
14	N/A	Washer, Flat	2
15	N/A	Washer, Lock	2
16	1012528	Nut, Hex, M8	2
17	7174	Washer, Lock, 5/16	2
18	1014948	Assembly, Diode (Service Part replacement for existing diode that comes standard with solenoid)	1
		Note: Vehicles with serial numbers 0106-987637 and greater do not include items 1, 2, and 4 through 11. The quantity of item 3 is half of the number listed above.	


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CONTROLLER, ONBOARD COMPUTER – POWERDRIVE PLUS VEHICLE

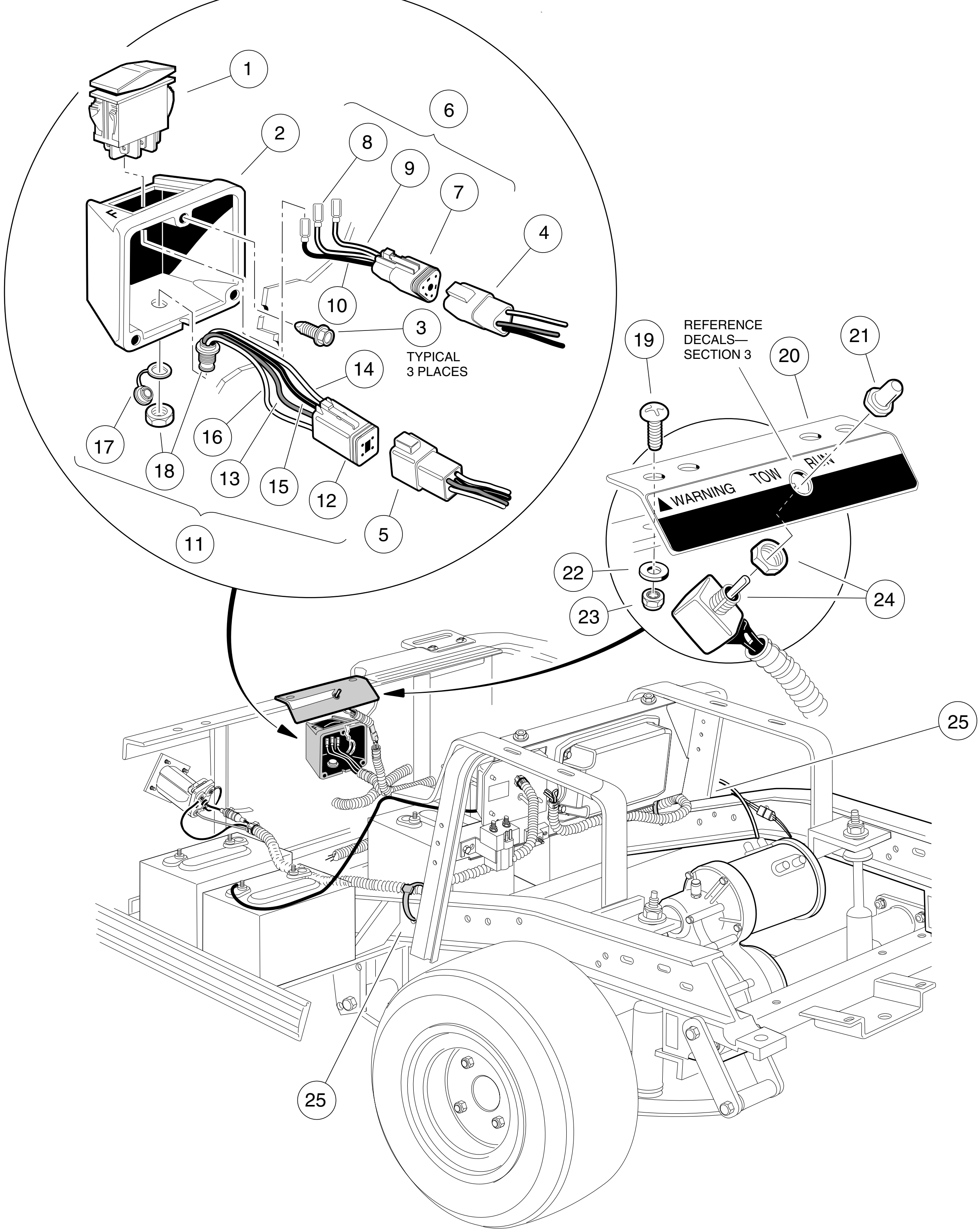
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	1242	Nut, Hex, 5/16-18	4
2	7174	Washer, Lock, 5/16	4
3	1241	Washer, Flat, 5/16	8
4	1218	Screw, Hex Head Cap, 5/16-18 x 1-1/4	1
5	7173	Screw, Hex Head Cap, 5/16-18 x 3/4	3
6	101887901	Controller, 48-Volt (220-amp)	1
7	8450	Screw, Hex Head Machine, #10-24 x 1/2	2
8	1018038	Washer, #10	4
9	1016175	Washer, Lock, #10	2
10	1017	Nut, Hex, #10-24	2
11	101965201	Plate, Component Mounting	1
12	8990	Tie, Wire	A/R
13	101909902	Computer, Onboard (includes item 14)	1
14	101932601	Kit, 6-Pin Receptacle	1
15	101932701	Kit, 6-Pin Plug Assembly	1
16	101827801	Kit, Wire and Terminal, #6 Black	1
17	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	5
18	1014288	Screw, Thread-Forming, 5/16-18 x 3/4	2
19	101910401	Screw, Thread-Forming, 5/16-18 x 1-1/4	2



(PIN 9) GRAY WIRE	9	1	**(PIN 1) WHITE WIRE**
(PIN 10) TAN WIRE	10	2	**(PIN 2) YELLOW WIRE**
	11	3	**(PIN 3) PURPLE/WHITE WIRE**
(PIN 12) BLUE/WHITE WIRE	12	4	**(PIN 4) GREEN/WHITE WIRE**
(PIN 13) BLACK/WHITE WIRE	13	5	**(PIN 5) LIGHT BLUE WIRE**
(PIN 14) LIGHT GREEN WIRE	14	6	**(PIN 6) GREEN WIRE**
(PIN 15) RED WIRE	15	7	**(PIN 7) ORANGE/WHITE WIRE**
(PIN 16) BLUE WIRE	16	8	**(PIN 8) BROWN WIRE**

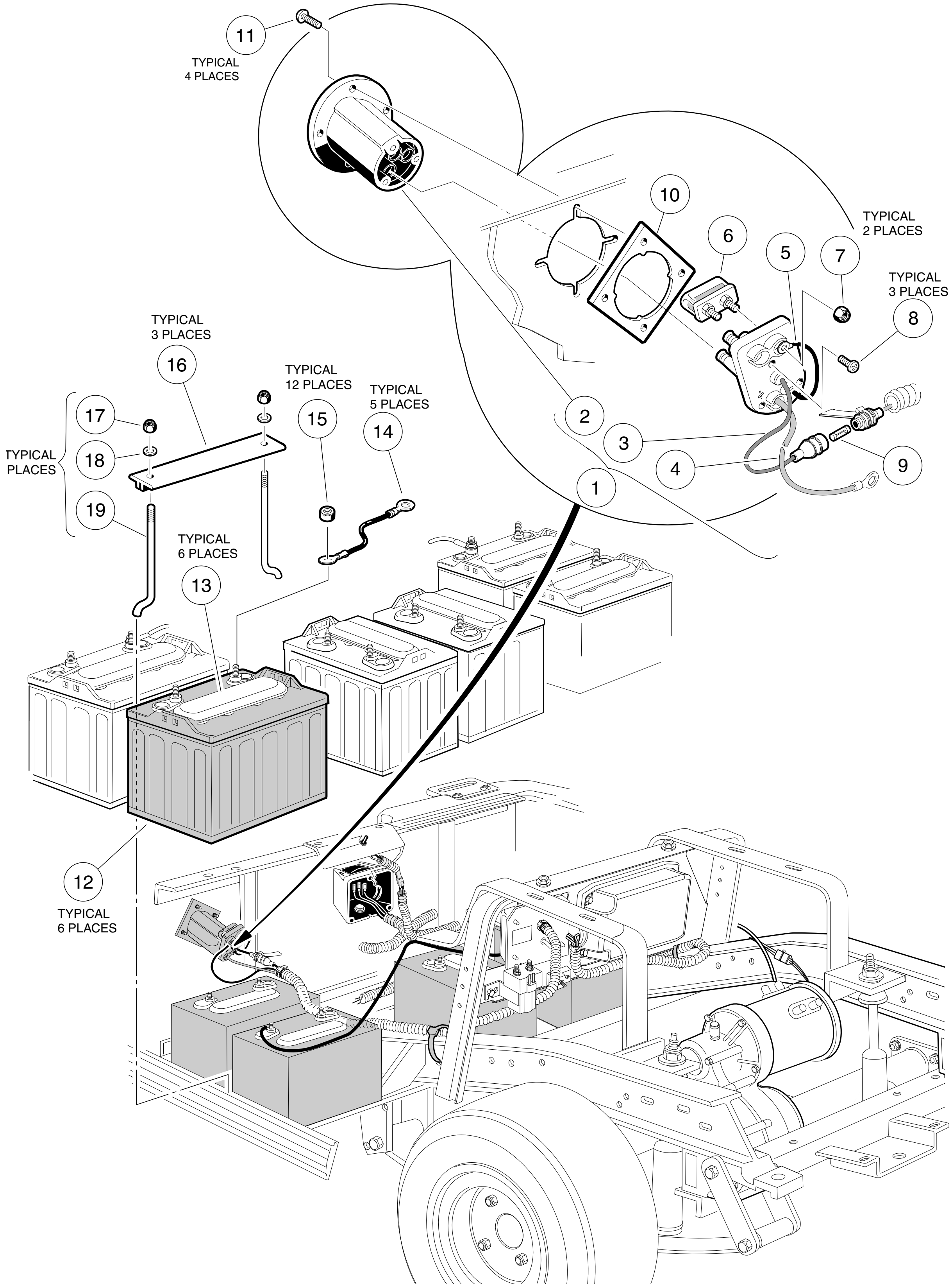
WIRING – IQ SYSTEM VEHICLE WITH MOTOR CONTROLLER OUTPUT REGULATOR (MCOR)

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	102196601	Wire Harness	1
2	N/A	Wire Assembly, #18 Orange/White (part of battery light)	1
3	N/A	Wire Assembly, #10 Red (part of fuse and receptacle assembly)	1
4	N/A	Wire Assembly, #6 Black	1
5	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
6	N/A	Wire Assembly, #18 Gray (part of onboard computer assembly)	1
7	N/A	Wire Assembly, #10 Black (part of onboard computer assembly)	1
8	101795701	Wire Assembly, #6 Black	5
9	101978101	Wire Assembly, #10 Orange	1
10	102199601	Wire Assembly, #6 Red	1
11	101978201	Wire Assembly, #10 Blue	1
12	101968701	Wire Assembly, #6 White	2
13	101978001	Wire Assembly, #6 Green	1
14	101920001	Wire Assembly, #6 Yellow	1
15	102263601	Wire, Assembly, #10 Black	1


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FORWARD/REVERSE SWITCH, TOW/RUN SWITCH – IQ SYSTEM VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101856001	Switch, Forward/Reverse	1
2	101855002	Case, Forward/Reverse Switch	1
3	101856101	Screw, Hi-Lo Hex Head, 1/4-15 x 1/2	3
4	101942301	Kit, 3-Pin Receptacle and Wedge Lock	1
5	101932401	Kit, 4-Pin Receptacle and Wedge Lock	1
6	102266601	Wire Assembly, Forward/Reverse Switch (includes items 7-10)	1
7	101920101	Kit, 3-Pin Plug and Wedge Lock	1
8	N/A	Wire Assembly, #18 Blue	1
9	N/A	Wire Assembly, #18 Orange	1
10	N/A	Wire Assembly, #18 Brown	1
11	102266701	Wire Assembly, IQDM Port (includes items 12-18)	
12	101932501	Kit, 4-Pin Plug and Wedge Lock	1
13	N/A	Wire Assembly, #18 Red/Yellow	1
14	N/A	Wire Assembly, #18 Black/Yellow	1
15	N/A	Wire Assembly, #18 Blue/Yellow	1
16	N/A	Wire Assembly, #18 Green/Yellow	1
17	102196901	Cap, Dust	1
18	N/A	Connector, 4-Pin	1
19	8248	Screw, Truss Phillips Machine, 1/4-20 x 3/4	2
20	101922501	Bracket, Tow/Run Switch (without decal)	1
21	101908401	Boot, Tow/Run Switch (with nut)	1
22	332	Washer, Flat, 1/4	2
23	8233	Nut, Nylon Lock, 1/4-20	2
24	101908101	Switch, Tow/Run	1
25	8990	Tie, Wire	A/R

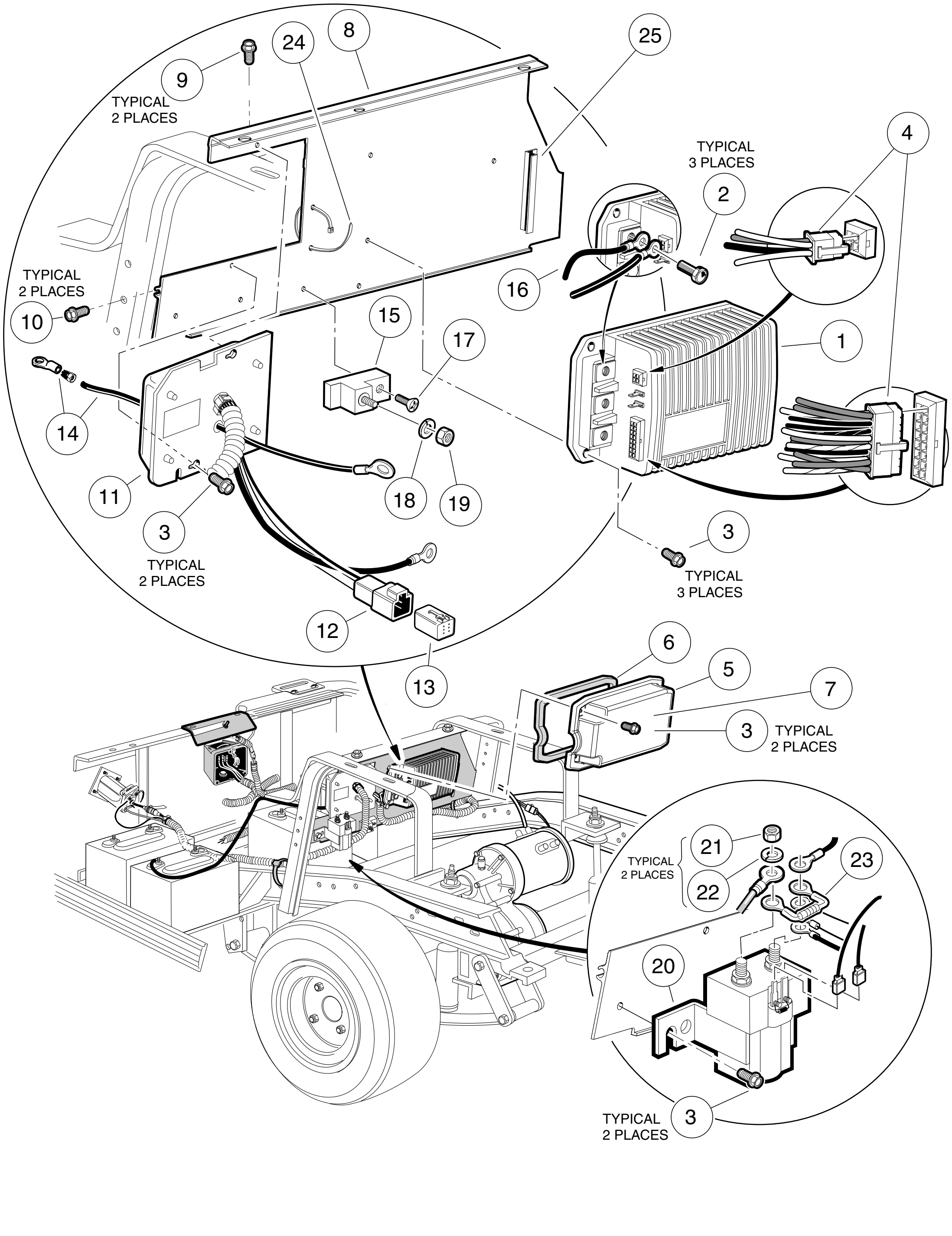

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BATTERIES, CHARGER RECEPTACLE – IQ SYSTEM VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101802101	Kit, Fuse and Receptacle (includes items 2 - 9)	1
2	101796501	Bezel, Receptacle	1
3	N/A	Wire Assembly, Sense Lead, Gray	1
4	N/A	Wire Assembly, #10 Red	1
5	N/A	Wire Assembly, #10 Black	1
6	101796801	Assembly, Fuse, 48-Volt (includes item 7)	1
7	1013061	Nut, Nylon Lock, #10	2
8	1017705	Screw, Phillips Pan Head, #8 Type AB	3
9	101894901	Fuse, 3/8-Amp	1
10	101801001	Plate, Receptacle Backing	1
11	101832001	Screw, Phillips Pan Head, #7-18 x 3/4	4
12	101797701	Battery, 8-Volt PowerDrive (includes item 13)	6
12	101797702	Battery, 8-Volt PowerDrive, Dry (includes item 13)	6
13	101797801	Cap, Battery, 4-Port Gang	1
14	101795701	Wire Assembly, #6 Black	5
15	1014304	Nut, Hex, Stainless Steel, 5/16-18	12
16	101090801	Hold-Down, Battery	3
17	1015072	Nut, Nylon Lock, Stainless Steel, 5/16-18	6
18	1011578	Washer, Flat, Type B Wide, 5/16	6
19	1013683	J-Bolt	6

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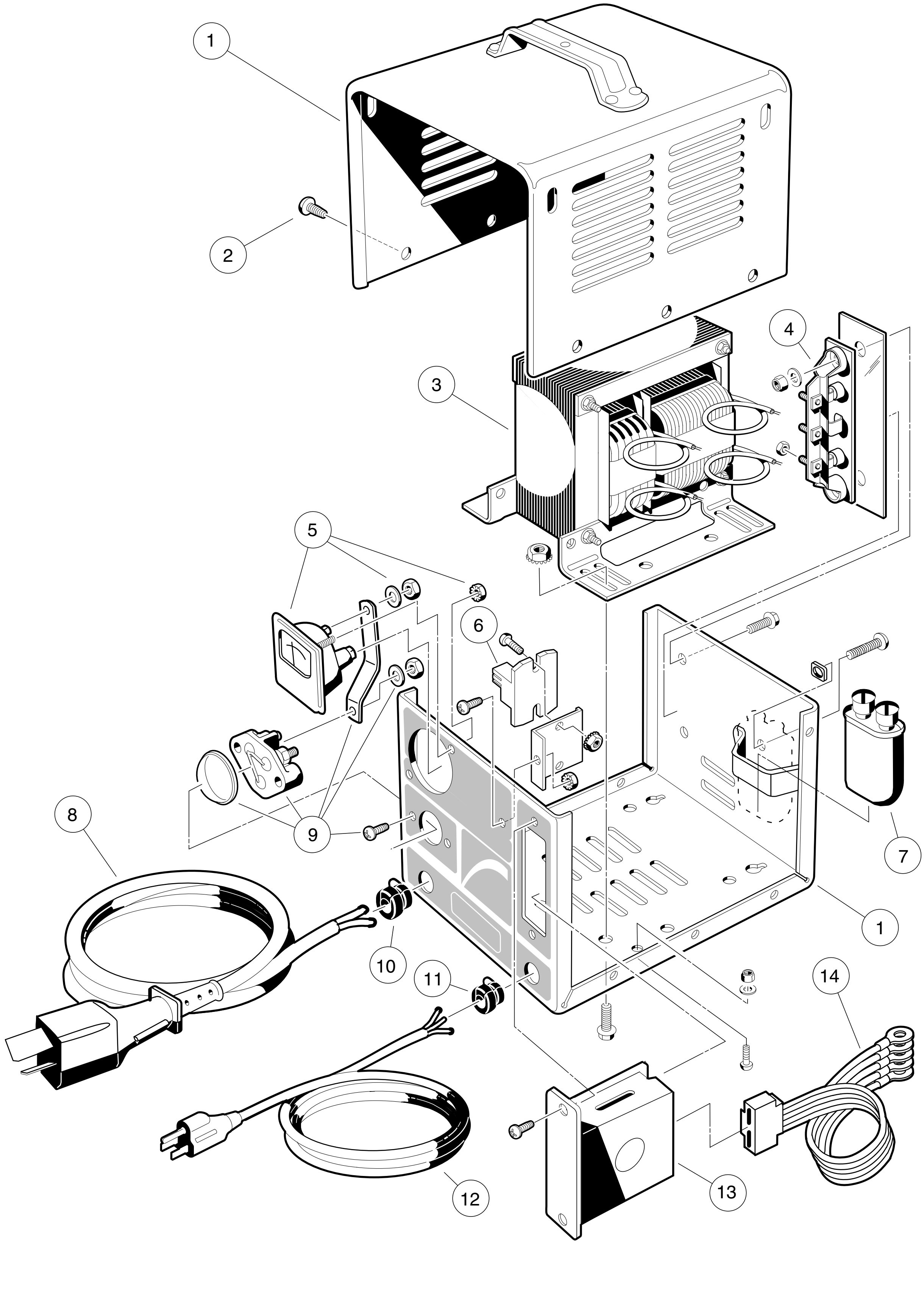


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COMPUTER, CONTROLLER, AND SOLENOID – IQ SYSTEM VEHICLE

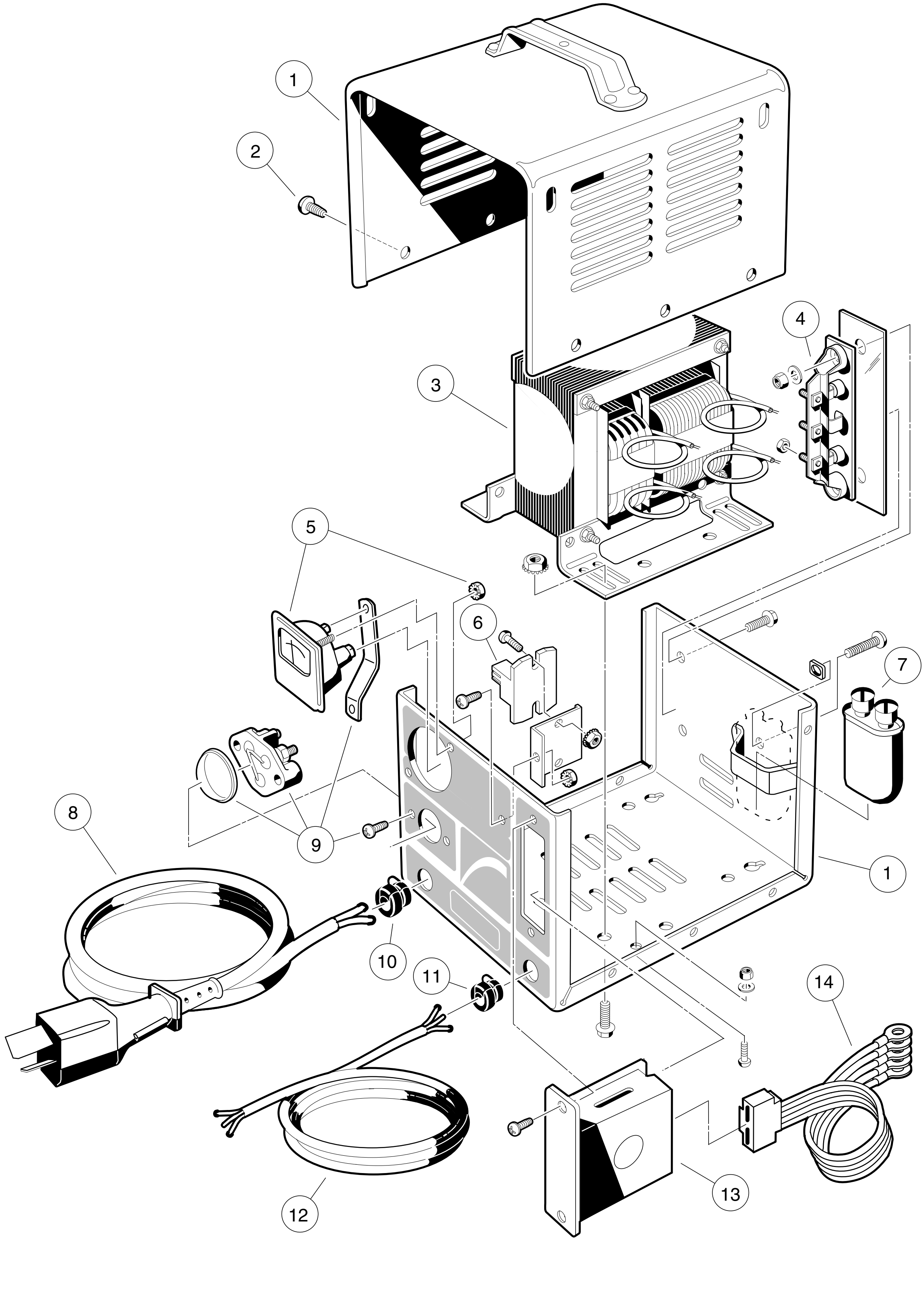
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
1	101956501	Controller, 48-Volt (250-amp)	1
1	****	Controller, 48-Volt (250-amp) (customized programming)	1
2	102240501	Screw, Hex Wash, M8 x 1-1/4 x 12 mm	3
3	1012285	Screw, Thread-Rolling, 1/4-20 x 5/8	8
4	102266501	Kit, Connector, IQ Controller	1
5	102240701	Cover, Controller (includes items 6 and 7)	1
6	102240801	Gasket, Controller	1
7	101931501	Decal, Electrical Component Cover	1
8	101965202	Plate, Component Mounting	1
9	1014288	Screw, Thread-Forming, 5/16-18 x 3/4	2
10	101910401	Screw, Thread-Forming, 5/16-18 x 1-1/4	2
11	101909902	Computer, Onboard (includes item 12)	1
12	101932601	Kit, 6-Pin Receptacle	1
13	101932701	Kit, 6-Pin Plug Assembly	1
14	101827801	Kit, Wire and Terminal, #6 Black	1
15	102259801	Block, Terminal (controller)	1
16	102263601	Wire Assembly, #10 Black	1
17	102263701	Screw, Phillips, Thread-Forming, #10-24 x 3/4	1
18	7174	Washer, Lock, 5/16	1
19	1242	Nut, Hex, 5/16-18	1
20	101908701	Solenoid, 48-Volt (with diode) (includes items 21 and 22)	1
21	1012528	Nut, M8 x 1-1/4	2
22	1013734	Washer, Lock, 8 mm	2
23	1014947	Assembly, Resistor	1
24	8639	Tie, Wire	1
25	****	Z-Bracket, Controller Cover	1
	****	Special order item available upon request.	

BATTERY CHARGER


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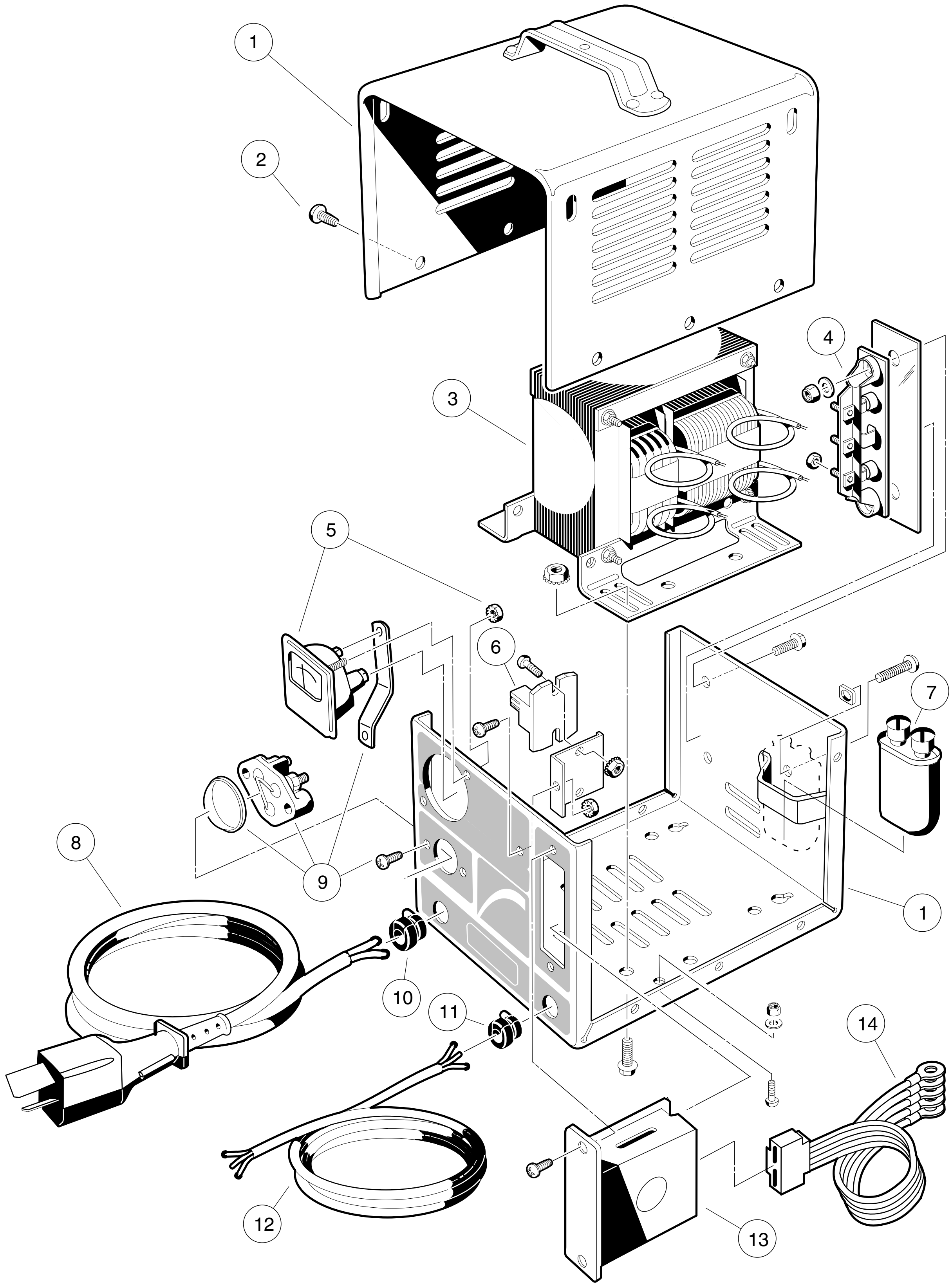
ACCU-POWER CHARGER, DOMESTIC – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101646401	Charger, Accu-Power, Domestic, 120-V AC, 36-V DC, 60-Hz (model number 13800-11) (includes items 1 - 14) 108-inch DC cord, 72-inch AC cord	1
1	1015907	Assembly, Case (includes fasteners)	1
2	7577	Screw, Pan Head, Self-Tapping, #10-16 x 1/2	10
3	1015912	Assembly, Transformer	1
4	1015914	Assembly, Heatsink, with Diodes (includes mounting hardware)	1
5	1015905	Ammeter (includes mounting hardware)	1
6	1015911	Relay, 36-V DC	1
7	1015910	Capacitor	1
8	101643301	Cordset, DC, 108-Inch Long (standard) 12-AWG	1
8	101643302	Cordset, DC, 146-Inch Long, 10-AWG	1
8	101643303	Cordset, DC, 242-Inch Long, 10-AWG	1
9	1012101	Assembly, Fuse (Includes Hardware)	1
10	1012098	Bushing, Strain Relief, 12-AWG DC Cord	1
10	1012042	Bushing, Strain Relief, 10-AWG DC Cord	1
11	1015917	Bushing, Strain Relief, AC Cord	1
12	101591601	Cordset, AC, 72-Inch Long (standard)	1
12	101591602	Cordset, AC, 108-Inch Long	1
13	1015906	Assembly, Timer Kit (includes mounting hardware)	1
14	1015913	Assembly, Control Cable	1


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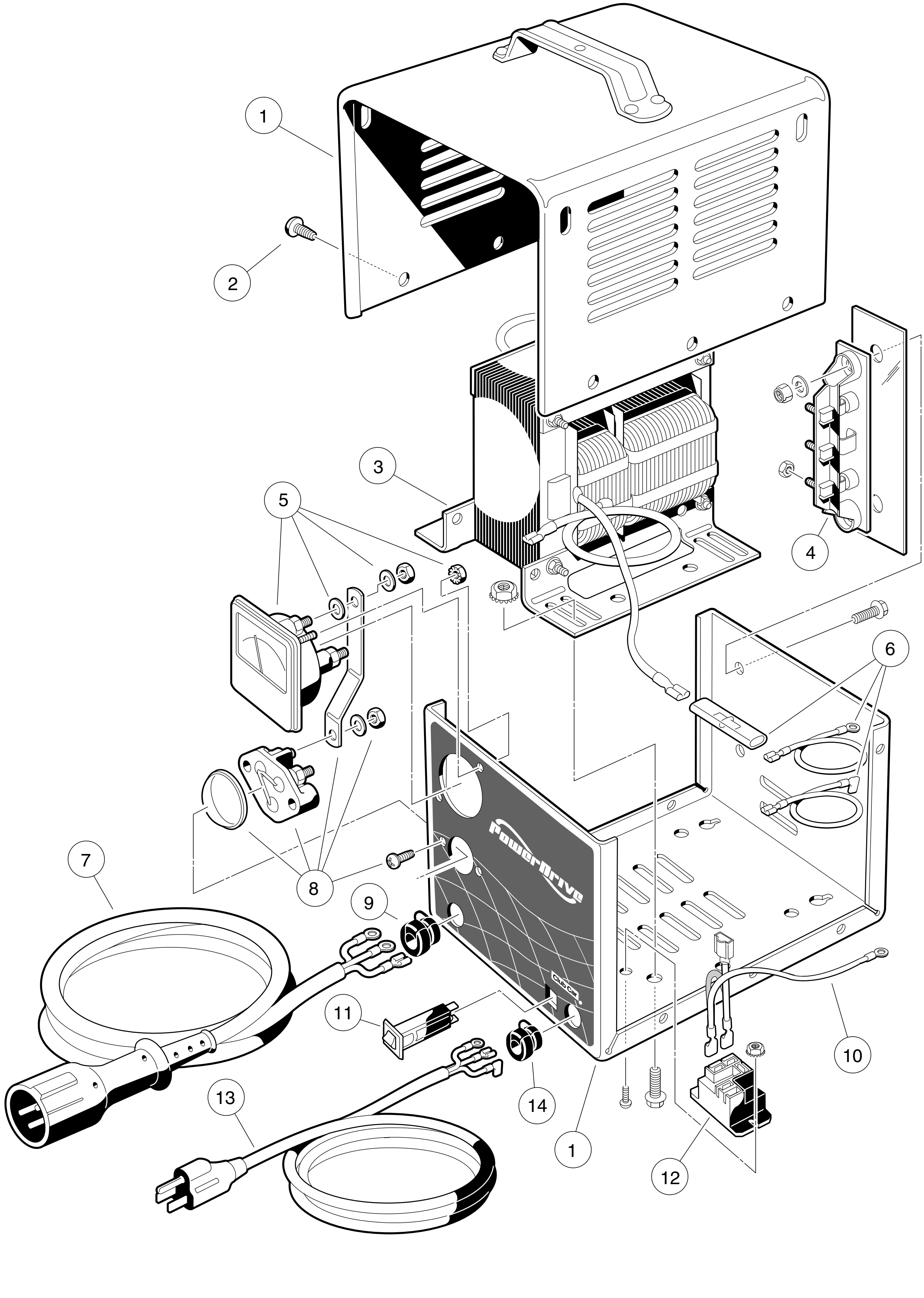
ACCU-POWER CHARGER, EXPORT, 230-VOLT – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101643401	Charger, Accu-Power, Export, 230-V AC, 36-V DC, 50-Hz (model number 14410-11) (includes items 1 - 14) 108-inch DC cord, 108-inch AC cord	1
1	N/A	Assembly, Case	1
2	7577	Screw, Pan Head, Self-Tapping, #10-16 x 1/2	10
3	1015936	Assembly, Transformer	1
4	1015914	Assembly, Heatsink, with Diodes (includes mounting hardware)	1
5	1015905	Ammeter (includes mounting hardware)	1
6	1015911	Relay, 36-V DC	1
7	1015910	Capacitor	1
8	101643301	Cordset, DC, 108-Inch Long, 12-AWG (standard)	1
8	101643302	Cordset, DC, 146-Inch Long, 10-AWG	1
8	101643303	Cordset, DC, 242-Inch Long, 10-AWG	1
9	1012101	Assembly, Fuse (includes mounting hardware)	1
10	1012098	Bushing, Strain Relief, 12-AWG DC Cord	1
10	1012042	Bushing, Strain Relief, 10-AWG DC Cord	1
11	1015917	Bushing, Strain Relief, AC Cord	1
12	1014696	Cordset, AC, 108-Inch Long (standard)	1
13	1015906	Assembly, Timer Kit (includes mounting hardware)	1
14	1015913	Assembly, Control Cable	1


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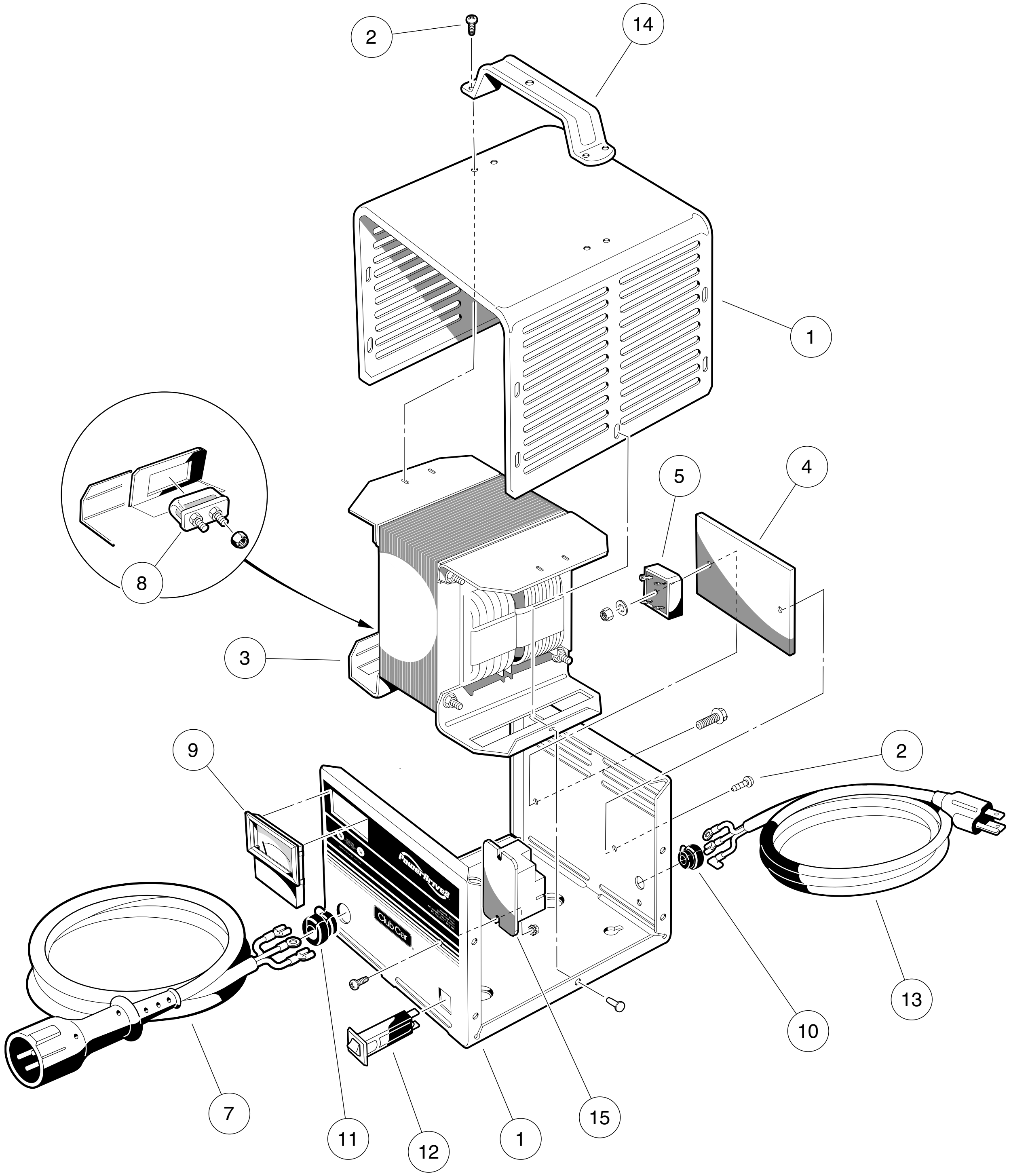
ACCU-POWER CHARGER, EXPORT, 100-VOLT – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101646201	Charger, Accu-power, Export, 100-V AC, 36-V DC, 50-Hz (model number 14900) (includes items 1 - 14) 108-inch DC cord, 108-inch AC cord	1
1	N/A	Assembly, Case	1
2	7577	Screw, Pan Head, Self-Tapping, #10-16 x 1/2	10
3	1016336	Assembly, Transformer	1
4	1015914	Assembly, Heatsink, with Diodes (includes mounting hardware)	1
5	1015905	Ammeter (Includes Mounting Hardware)	1
6	1015911	Relay, 36-V DC	1
7	1015939	Capacitor	1
8	101643301	Cordset, DC, 108-Inch Long, 12-AWG (standard)	1
8	101643302	Cordset, DC, 146-Inch Long, 10-AWG	1
8	101643303	Cordset, DC, 242-Inch Long, 10-AWG	1
9	1012101	Assembly, Fuse (includes mounting hardware)	1
10	1012098	Bushing, Strain Relief, 12-AWG DC Cord	1
10	1012042	Bushing, Strain Relief, 10-AWG DC Cord	1
11	1015917	Bushing, Strain Relief, AC Cord	1
12	1016282	Cordset, AC, 108-Inch Long	1
13	1015906	Assembly, Timer Kit (includes mounting hardware)	1
14	1015913	Assembly, Control Cable	1


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PowerDrive
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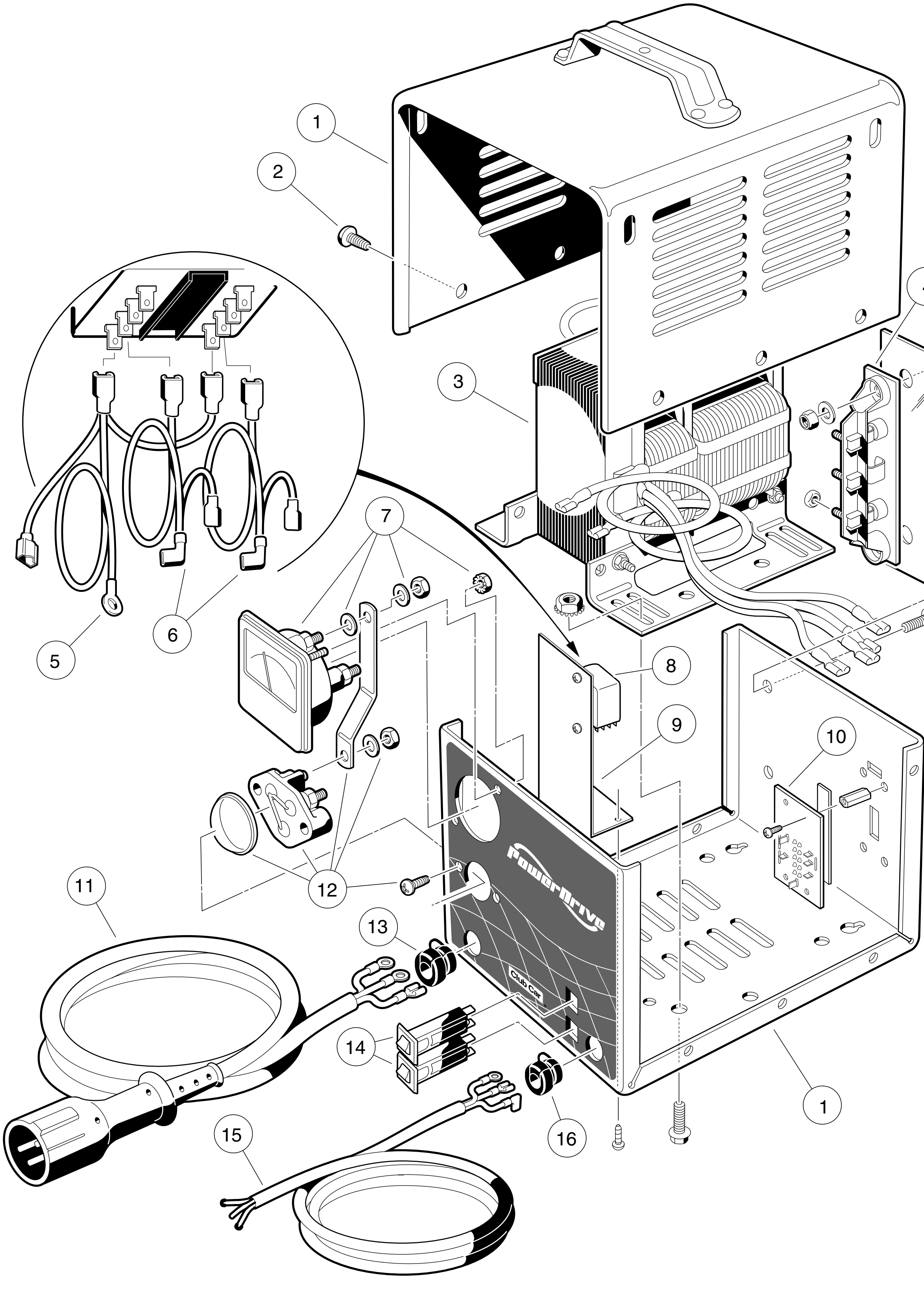
POWERDRIVE CHARGER, DOMESTIC

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
		PowerDrive chargers can be used with PowerDrive System 48, PowerDrive Plus, and IQ System vehicles.	
	101802201	Charger, Battery, PowerDrive, Domestic 120-V AC 48-V DC 60-Hz (model number 17930-11) (includes items 1 - 14) 103-inch DC cord with male 3-pin plug, 12-AWG 74-inch AC cord with male grounded plug	1
	101802202	Charger, Battery, PowerDrive 120-V AC 48-V DC 60-Hz (model number 17930-18) (includes items 1 - 14) 144-inch DC cord with male 3-pin plug, 12-AWG 108-inch AC cord with male grounded plug	1
	101802203	Charger, Battery, PowerDrive 120-V AC 48-V DC 60-Hz (model number 17930-19) (includes items 1 - 14) 240-inch DC cord with male 3-pin plug, 12-AWG 108-inch AC cord with male grounded plug	1
1	101828301	Assembly, Case (includes fasteners)	1
2	7577	Screw, Pan Head, Self-Tapping, #10-16 x 1/2	10
3	101819701	Assembly, Transformer	1
4	1015914	Assembly, Heatsink, with Diodes (includes mounting hardware)	1
5	101828501	Ammeter (includes mounting hardware)	1
6	101831101	Kit, Wire Assembly	1
7	101828901	Cordset, DC, 113-Inch Long with Male 3-Pin Plug, 12-AWG	1
7	101828902	Cordset, DC, 154-Inch Long with Male 3-Pin Plug, 12-AWG	1
7	101828903	Cordset, DC, 250-Inch Long with Male 3-Pin Plug, 12-AWG	1
8	1012101	Assembly, Fuse (includes mounting hardware)	1
9	1012098	Bushing, Strain Relief, DC Cord, 12-AWG	1
10	101914401	Assembly, Voltage Suppressor	1
11	101828701	Breaker, Circuit, 15-Amp	1
12	101828601	Relay, Power, 48-V DC	1
13	101828801	Cordset, AC, 80-Inch Long	1
13	101828802	Cordset, AC, 116-Inch Long	1
14	1015917	Bushing, Strain Relief, AC Cord	1


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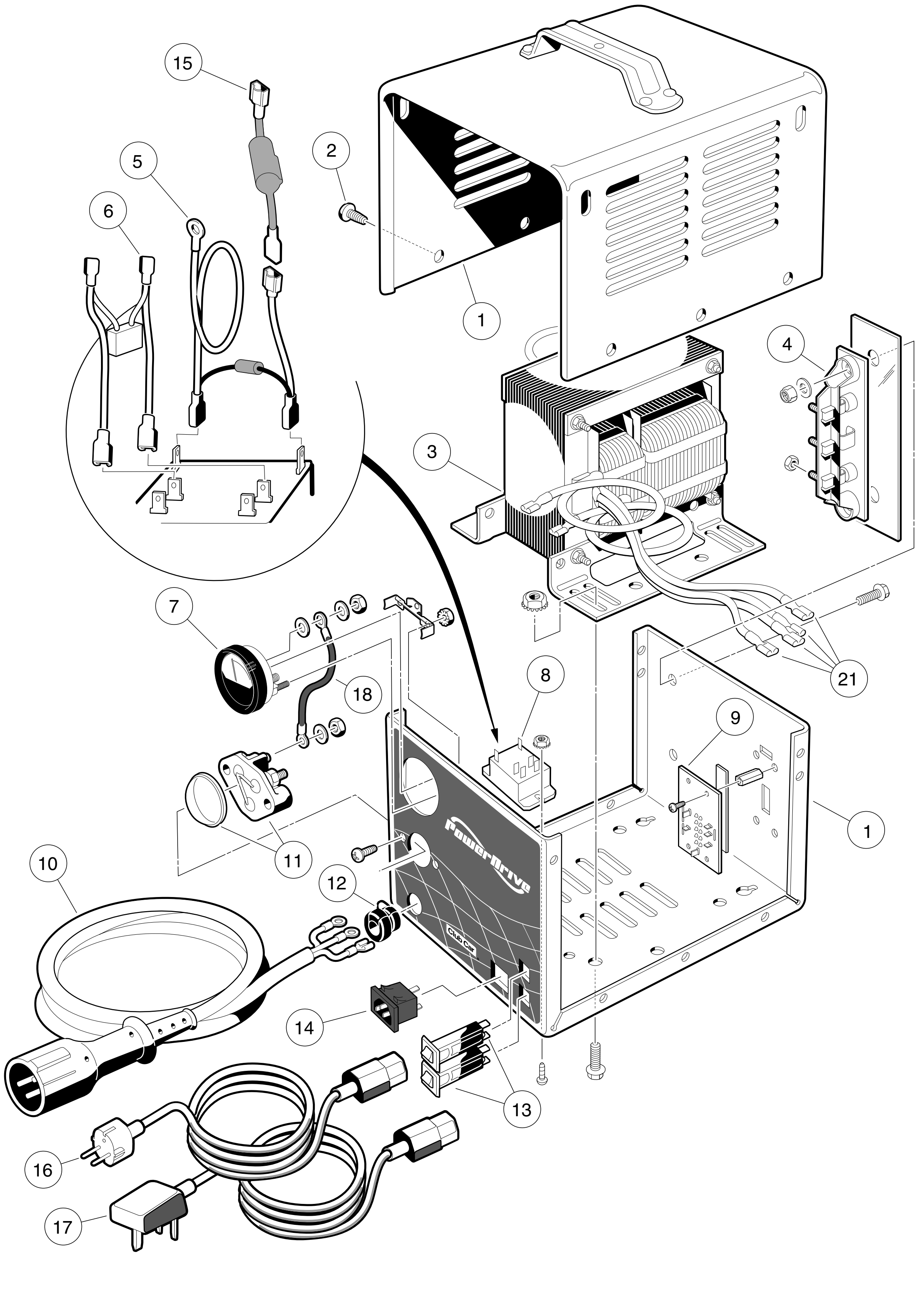
POWERDRIVE 2 CHARGER, DOMESTIC

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101802204	Charger, Battery, PowerDrive, Domestic 120-V AC 48-V DC 60-Hz (model number 22110-11) (includes items 1 - 15) 103-inch DC cord with male 3-pin plug, 12-AWG 74-inch AC cord with male grounded plug	1
	101802205	Charger, Battery, PowerDrive 120-V AC 48-V DC 60-Hz (model number 22110-18) (includes items 1 - 15) 144-inch DC cord with male 3-pin plug, 12-AWG 108-inch AC cord with male grounded plug	1
	101802206	Charger, Battery, PowerDrive 120-V AC 48-V DC 60-Hz (model number 22110-19) (includes items 1 - 15) 240-inch DC cord with male 3-pin plug, 12-AWG 108-inch AC cord with male grounded plug	1
1	102273201	Assembly, Case (includes item 2)	1
2	7577	Screw, Pan Head, Self-Tapping, #10-16 x 1/2	12
3	102273301	Assembly, Transformer (includes rivets)	1
4	102273401	Plate, Heatsink	1
5	102273501	Assembly, Diode with Heatsink Film (includes mounting hardware)	1
6	102273601	Kit, Wire Assembly (not shown)	1
7	101828904	Cordset, DC, 113-Inch Long with Male 3-Pin Plug, 12-AWG	1
7	101828905	Cordset, DC, 154-Inch Long with Male 3-Pin Plug, 12-AWG	1
7	101828906	Cordset, DC, 250-Inch Long with Male 3-Pin Plug, 12-AWG	1
8	102273701	Assembly, Fuse, 30-Amp (includes terminal hardware)	1
9	102273801	Ammeter (includes mounting hardware)	1
10	102273901	Bushing, Strain Relief, AC Cord	1
11	1012098	Bushing, Strain Relief, DC Cord, 12-AWG	1
12	101828701	Breaker, Circuit, 15-Amp	1
13	101828801	Cordset, AC, 80-Inch Long	1
13	101828802	Cordset, AC, 116-Inch Long	1
14	102274001	Handle, PowerDrive 2 Charger (with four screws)	1
15	101828601	Relay, Power, 48-V DC	1


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PowerDrive
Club Car

POWERDRIVE CHARGER, EXPORT

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4 PowerDrive chargers can be used with PowerDrive System 48, PowerDrive Plus, and IQ System vehicles.	
	101831503	Charger, Battery, PowerDrive, Export with 4-Position Switch 100 - 200 - 220 - 240 V AC, 48-V DC 50/60-Hz (model number 18780-11) (includes items 1 - 16) 103-inch DC cord with male 3-pin plug, 12-AWG 74-inch AC cord with no plug	1
	101831504	Charger, Battery, PowerDrive Export with 4-Position Switch 100 - 200 - 220 - 240 V AC, 48-V DC 50/60-Hz (model number 18780-18) (includes items 1 - 16) 144-inch DC cord with male 3-pin plug, 12-AWG 108-inch AC cord with no plug	1
1	N/A	Assembly, Case	1
2	7577	Screw, Pan Head, Self-Tapping, #10-16 x 1/2	10
3	101838201	Assembly, Transformer	1
4	1015914	Assembly, Heatsink, with Diodes (includes mounting hardware)	1
5	101914401	Assembly, Voltage Suppressor	1
6	101838501	Kit, Wire Assembly	1
7	101828501	Ammeter (includes hardware)	1
8	101838301	Relay, Power, 48-V DC (includes mounting hardware)	1
9	101838701	Bracket, Power Relay Mounting	1
10	101838601	Switch, 4-Position Slide	1
11	101828901	Cordset, DC, 113-Inch Long with Male 3-Pin Plug, 12-AWG	1
11	101828902	Cordset, DC, 154-Inch Long with Male 3-Pin Plug, 12-AWG	1
11	101828903	Cordset, DC, 250-Inch Long with Male 3-Pin Plug, 12-AWG	1
12	1012101	Assembly, Fuse (includes hardware)	1
13	1012098	Bushing, Strain Relief, DC Cord, 12-AWG	1
14	101838401	Breaker, Circuit, 10-Amp	2
15	101831701	Cordset, AC, 80-Inch Long with Leads (no plug)	1
15	101831702	Cordset, AC, 116-Inch Long with Leads (no plug)	1
16	1015917	Bushing, Strain Relief, AC Cord	1


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PowerDrive
Club Car

POWERDRIVE CHARGER, EUROPEAN

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4 PowerDrive chargers can be used with PowerDrive System 48, PowerDrive Plus, and IQ System vehicles.	
	101956201	Charger, Battery, PowerDrive, European with 4-Position Switch 100 - 200 - 220 - 240 V AC, 48-V DC 50/60-Hz (model number 20300) (includes items 1 - 15) 103-inch (261 cm) DC cord with male 3-pin plug, 12-AWG	1
	101956202	Charger, Battery, PowerDrive European with 4-Position Switch 100 - 200 - 220 - 240 V AC, 48-V DC 50/60-Hz (model number 20310) (includes items 1 - 15) 144-inch (366 cm) DC cord with male 3-pin plug, 12-AWG	1
1	N/A	Assembly, Case	1
2	7577	Screw, Pan Head, Self-Tapping, #10-16 x 1/2	10
3	****	Assembly, Transformer	1
4	1015914	Assembly, Heatsink, with Diodes (includes mounting hardware)	1
5	****	Assembly, AC Voltage Suppressor	1
6	****	Kit, Wire Assembly	1
7	101976601	Ammeter (includes hardware)	1
8	101987501	Relay, Power, 48-V DC (includes mounting hardware)	1
9	101838601	Switch, 4-Position Slide	1
10	101828901	Cordset, DC, 103-Inch (261 cm) Long with Male 3-Pin Plug, 12-AWG	1
10	101828902	Cordset, DC, 144-Inch (366 cm) Long with Male 3-Pin Plug, 12-AWG	1
11	1012101	Assembly, Fuse (includes hardware)	1
12	1012098	Bushing, Strain Relief, DC Cord, 12-AWG	1
13	101838401	Breaker, Circuit, 10-Amp	2
14	101973501	Receptacle, AC Cord	1
15	****	Assembly, Current Limiter	1
16	101958301	Cordset, AC, Continental Europe, 96-Inch (244 cm) Long (with male 2-pin plug)	1
17	101958201	Cordset, AC, U.K., 96-Inch (244 cm) Long (with male 3-pin plug)	1
18	N/A	Wire, Jumper	1
	****	Special order item available on request	

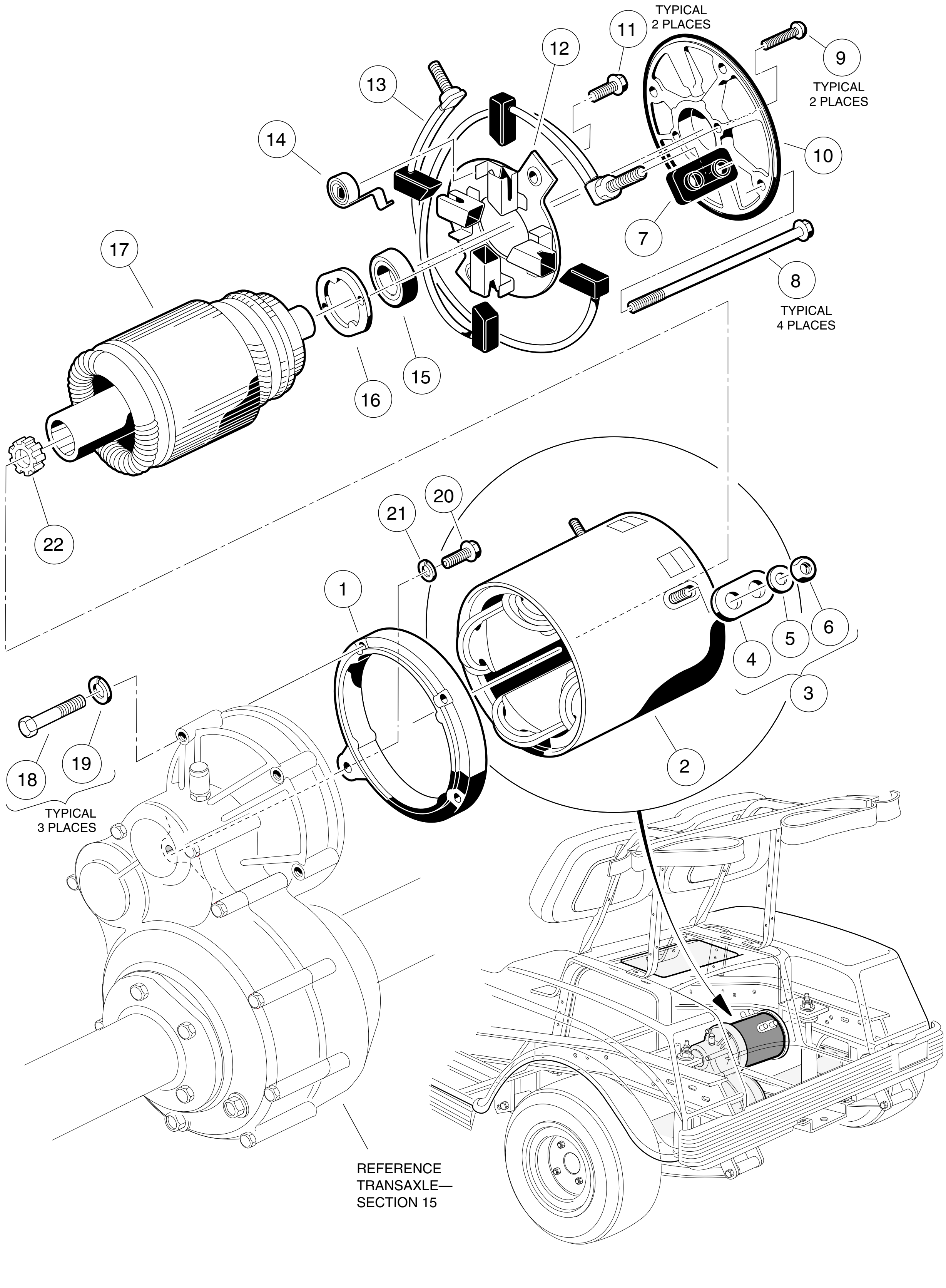
ELECTRIC MOTOR

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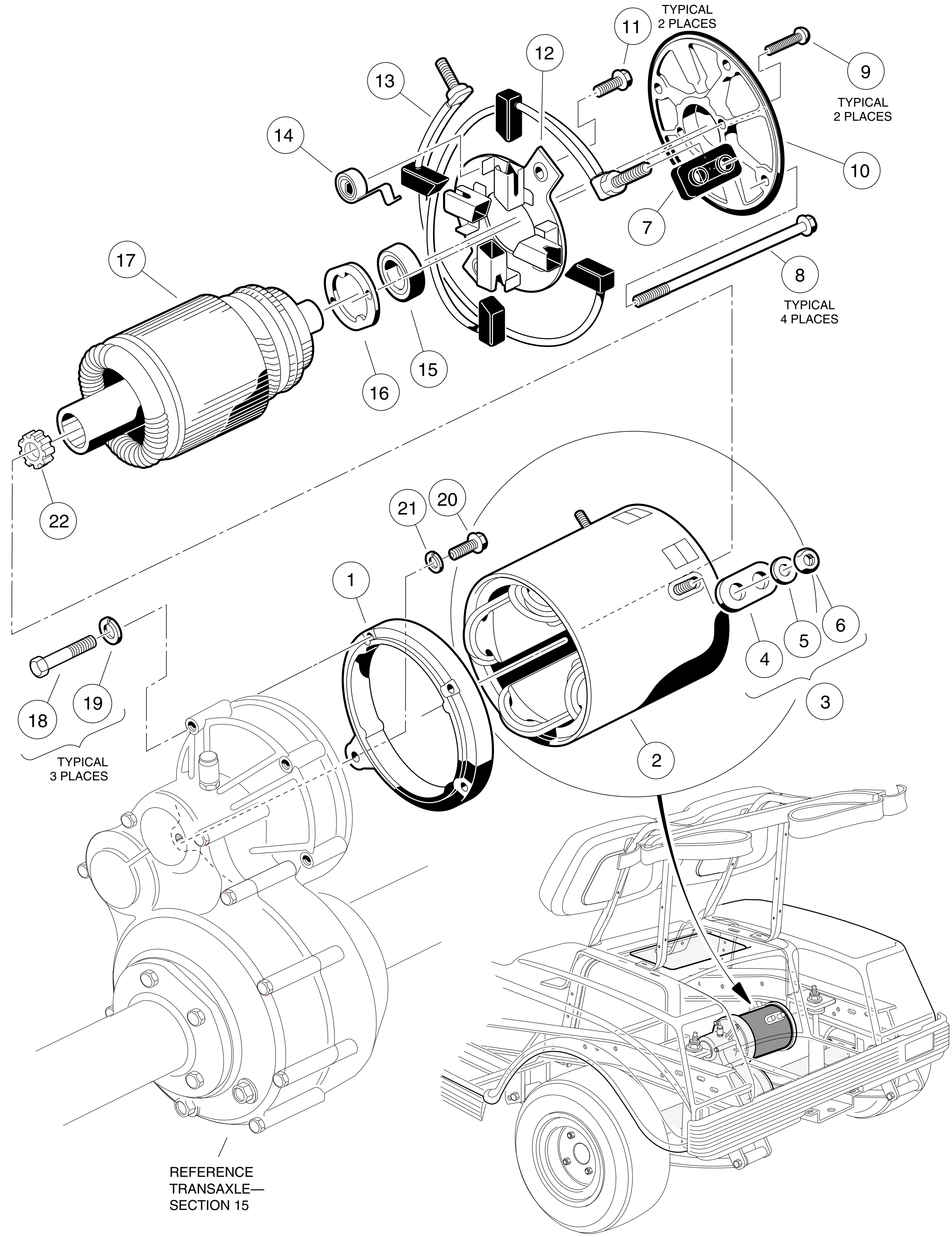
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TYPICAL
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REFERENCE
TRANSAXLE—
SECTION 15

MOTOR – V-GLIDE 36-VOLT VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	102237401	Assembly, 36-Volt Motor, 2.97-hp (includes items 1 - 17)	1
1	1017944	Shield, End	1
2	1017945	Assembly, Stator Shell and Winding	1
3	1017947	Package, Hardware (includes items 4 - 7)	1
4	N/A	Bushing, Insulator	2
5	N/A	Washer, Flat, 5/16	4
6	N/A	Nut, Hex, 5/16-18	4
7	N/A	Bushing, Insulator	2
8	1017952	Screw, Clamp	4
9	1017953	Screw, Bearing Retainer	2
10	1017951	Shield, End	1
11	1017949	Screw, Brush Holder	2
12	1017948	Rigging, Brush	1
13	1017946	Package, Brush (2 pieces) (includes 4 brushes)	1
14	1011411	Package, Brush Spring (4 pieces)	1
15	1011290	Bearing, Ball	1
16	1017950	Retainer, Bearing	1
17	N/A	Armature	1
18	1014201	Screw, Hex Head Cap, 1/4-20 x 2-1/4	3
19	451	Washer, Lock, 1/4	3
20	1010934	Screw, Hex Head Cap, 5/16-18 x 1	1
21	7174	Washer, Lock, 5/16	1
22	102235201	Bumper, Motor	1

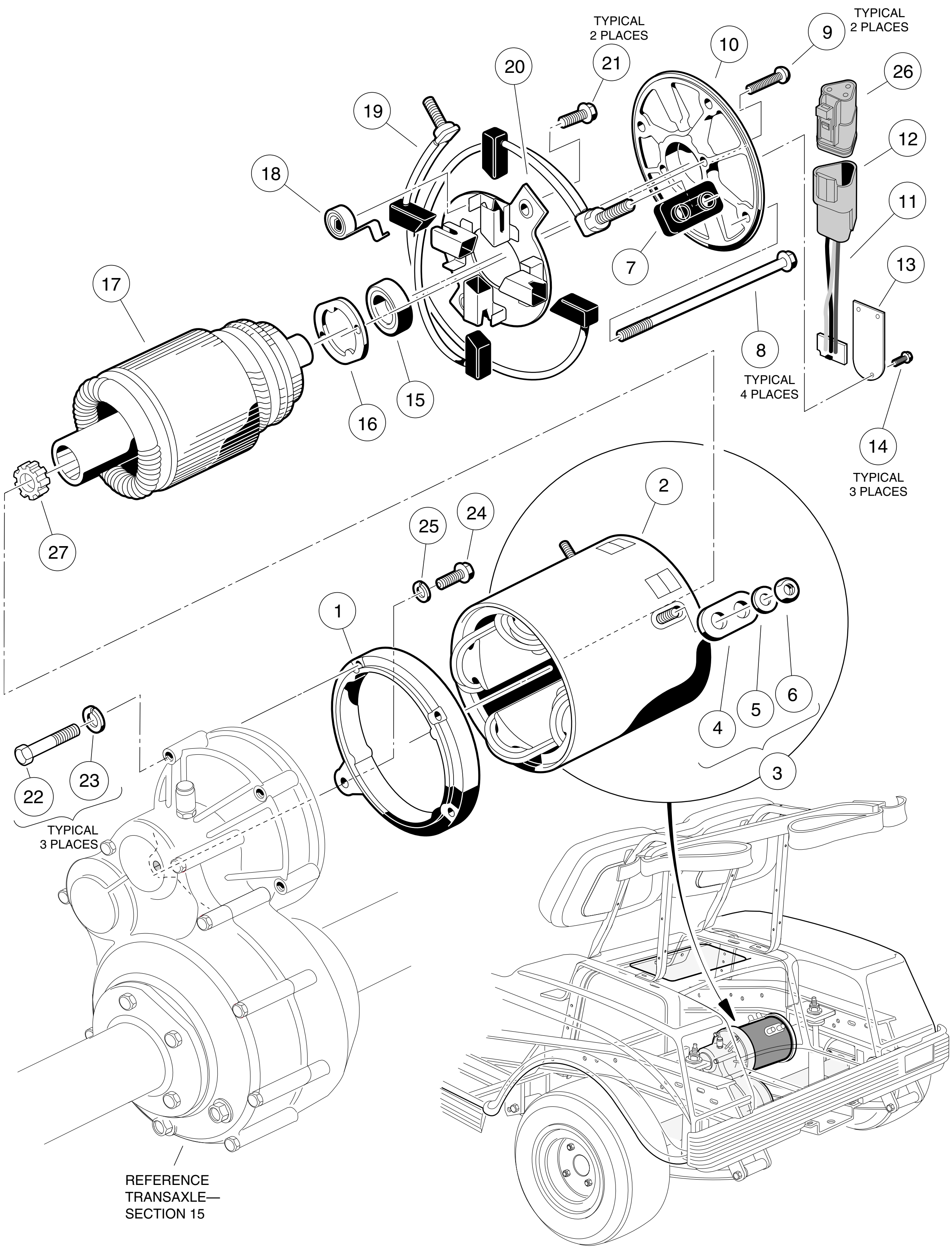

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SECTION 15
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MOTOR – POWERDRIVE SYSTEM 48 VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	102237701	Assembly, 48-Volt Motor, 3.10-hp (includes items 1 - 17)	1
1	1017944	Shield, End	1
2	1017958	Assembly, Stator Shell and Winding	1
3	1017947	Package, Hardware (includes items 4 - 7)	1
4	N/A	Bushing, Insulator	2
5	N/A	Washer, Flat, 5/16	4
6	N/A	Nut, Hex, 5/16-18	4
7	N/A	Bushing, Insulator	2
8	1017961	Screw, Clamp	4
9	1017953	Screw, Bearing Retainer	2
10	1017951	Shield, End	1
11	1017949	Screw, Brush Holder	2
12	1017948	Rigging, Brush	1
13	1017946	Package, Brush (2 pieces) (includes 4 brushes)	1
14	1011411	Package, Brush Spring (4 pieces)	1
15	1011290	Bearing, Ball	1
16	1017950	Retainer, Bearing	1
17	N/A	Armature	1
18	1014201	Screw, Hex Head Cap, 1/4-20 x 2-1/4	3
19	451	Washer, Lock, 1/4	3
20	1010934	Screw, Hex Head Cap, 5/16-18 x 1	1
21	7174	Washer, Lock, 5/16	1
22	102235201	Bumper, Motor	1

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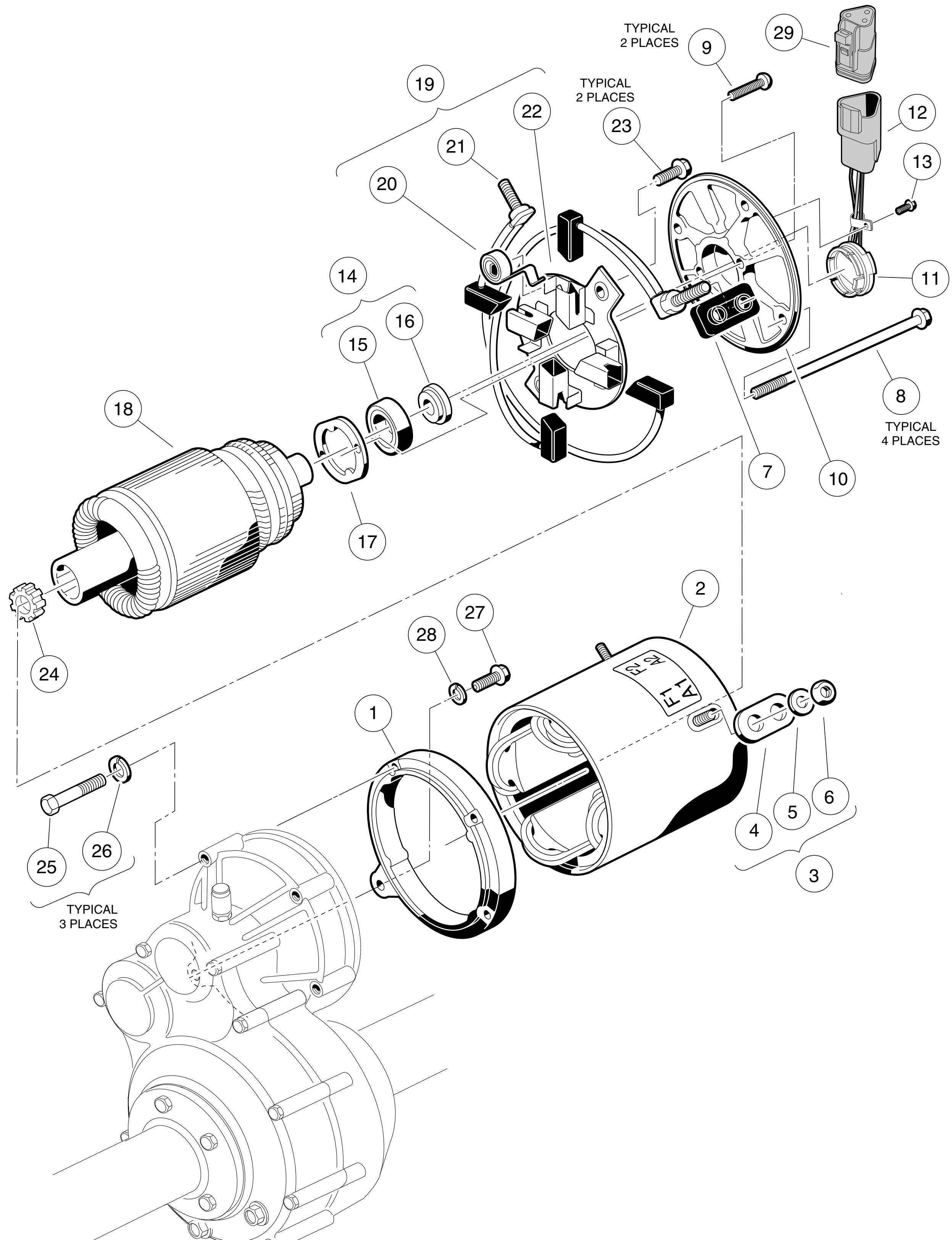
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TYPICAL
3 PLACES
REFERENCE
TRANSAXLE—
SECTION 15

MOTOR – POWERDRIVE PLUS VEHICLE

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101854501	Assembly, 48-Volt Motor, 3.20-hp (includes items 1 - 21)	1
1	1017944	Shield, End	1
2	101879201	Assembly, Stator Shell and Winding	1
3	1017947	Package, Hardware (includes items 4 - 7)	1
4	N/A	Bushing, Insulator	2
5	N/A	Washer, Flat, 5/16	4
6	N/A	Nut, Hex, 5/16-18	4
7	N/A	Bushing, Insulator	2
8	1017961	Screw, Clamp, #10-32 x 8-5/8	4
9	1017953	Screw, Bearing Retainer, #8-32 x 7/8	2
10	101879301	Shield, End (includes items 11 - 14)	1
11	101925801	Sensor, Hall Effect (includes item 12)	1
12	101895101	Housing, Female 3-Wire, Gray	1
13	N/A	Plate, Retaining	1
14	N/A	Screw, Retaining	3
15	1011290	Bearing, Ball	1
16	1017950	Retainer, Bearing	1
17	N/A	Armature	1
18	1011411	Package, Brush Spring (4 pieces)	1
19	1017946	Package, Brush (2 pieces) (includes 4 brushes)	1
20	1017948	Rigging, Brush	1
21	1017949	Screw, Brush Holder, #6-32 x 1/2	2
22	1014201	Screw, Hex Head Cap, 1/4-20 x 2-1/4	3
23	451	Washer, Lock, 1/4	3
24	1010934	Screw, Hex Head Cap, 5/16-18 x 1	1
25	7174	Washer, Lock, 5/16	1
26	101920101	Kit, 3-Pin Plug Assembly, Gray	1
27	102235201	Bumper, Motor	1


TYPICAL
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TYPICAL
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TYPICAL
3 PLACES

ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	102240102	Assembly, 48-Volt IQ Motor, 3.20-hp (includes items 1 - 23)	1
1	1017944	Shield, End	1
2	102265501	Assembly, Stator Shell and Winding	1
3	1017947	Package, Hardware (includes items 4 - 7)	1
4	N/A	Bushing, Insulator	2
5	N/A	Washer, Flat, 5/16	4
6	N/A	Nut, Hex, 5/16-18	4
7	N/A	Bushing, Insulator	2
8	102266101	Screw, Clamp, #10-32 x 8-1/4	4
9	1017953	Screw, Bearing Retainer, #8-32 x 7/8	2
	102265901	Assembly, End Shield (includes items 10 - 13)	1
10	102266001	Shield, End	1
11	102265601	Sensor, Motor Speed (includes item 12)	1
12	101942301	Housing, Female 3-Wire, Gray	1
13	102267001	Screw, Steel Hex, Thread-Rolling, #8 x 3/8	
14	102265701	Kit, Bearing and Magnet (includes items 15 and 16)	1
15	N/A	Bearing, Ball	1
16	N/A	Magnet	1
17	1017950	Retainer, Bearing	1
18	N/A	Armature	1
19	102327801	Assembly, Brush Rigging (includes items 20 - 22)	1
20	1011411	Package, Brush Spring (4 pieces)	1
21	102251901	Package, Brush (2 pieces) (includes 4 brushes)	1
22	1017948	Rigging, Brush	1
23	1017949	Screw, Brush Holder, #6-32 x 1/2	2
24	102235201	Bumper, Motor	1
25	1014201	Screw, Hex Head Cap, 1/4-20 x 2-1/4	3
26	451	Washer, Lock, 1/4	3
27	1010934	Screw, Hex Head Cap, 5/16-18 x 1	1
28	7174	Washer, Lock, 5/16	1
29	101920101	Kit, 3-Pin Plug Assembly, Gray	1

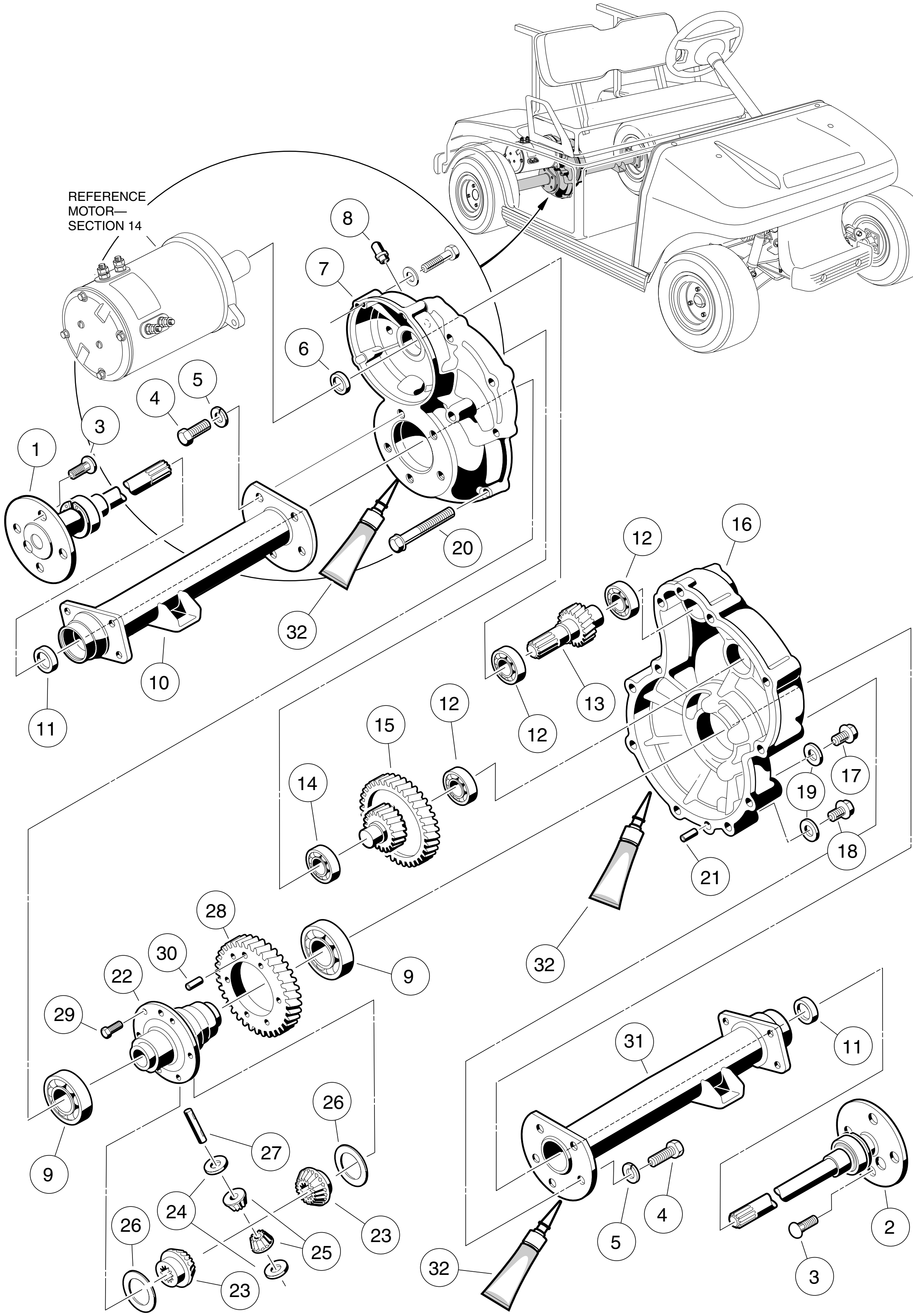
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TRANSAXLE – ELECTRIC VEHICLE

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REFERENCE
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SECTION 14
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TRANSAXLE, TYPE G – ELECTRIC VEHICLE

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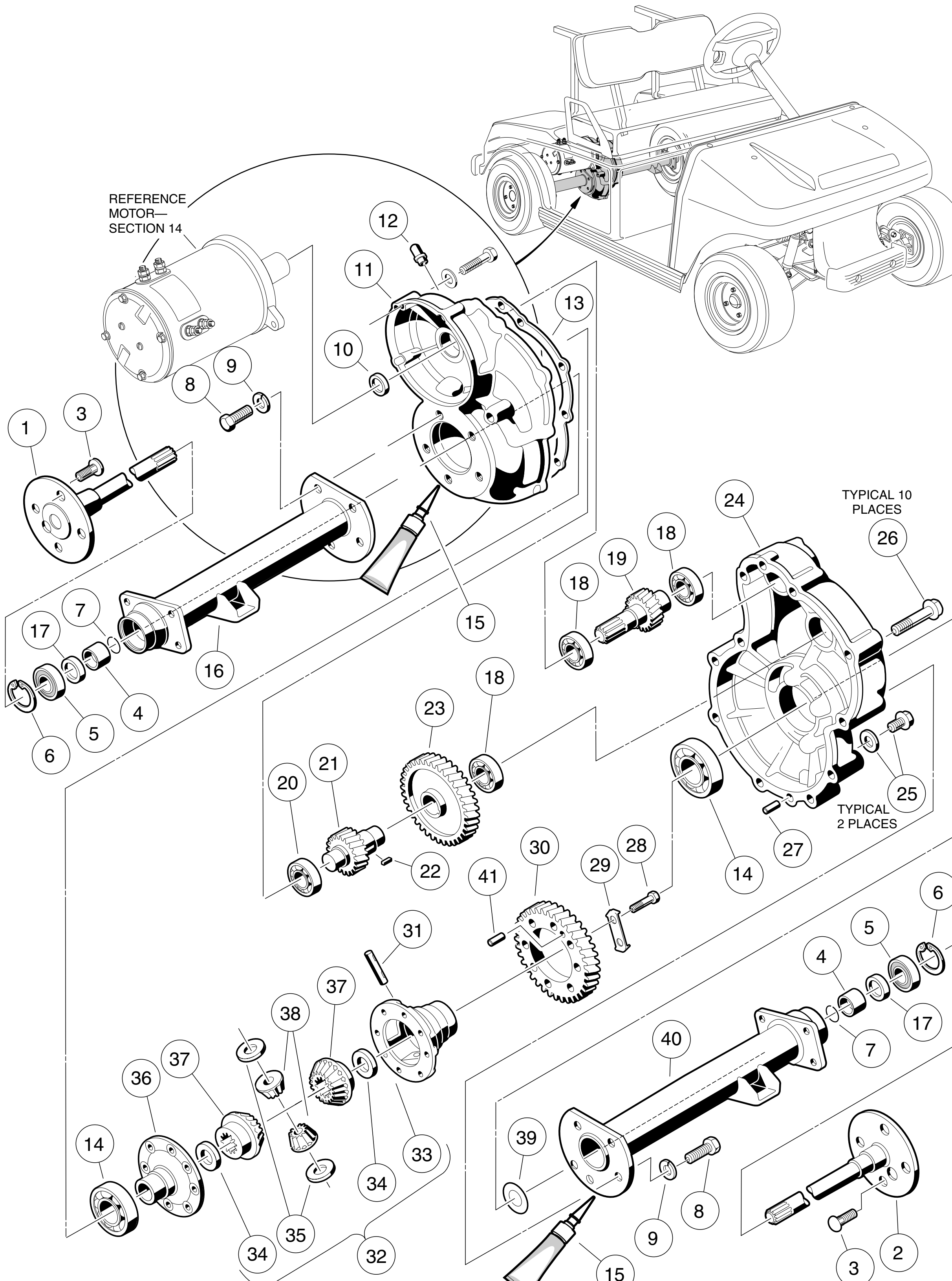
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ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	101896001	Transaxle, Type G (includes items 1 - 32)	1
1	101895801	Axle Assembly, Passenger Side (includes item 3)	1
2	101895901	Axle Assembly, Driver Side (includes item 3)	1
3	101922201	Stud, Lug	4
4	101976001	Bolt, M10 x 1.5 x 35 mm	10
5	101897901	Washer, Lock	10
6	101923501	Seal, Oil, Input Shaft	1
7	101895501	Gear Case, Passenger Side	1
8	101897201	Breather	1
9	7330	Bearing, Differential	2
10	101895601	Assembly, Axle Tube, Passenger Side	1
11	1013794	Seal, Oil, Axle Shaft	2
12	7335	Bearing, Input Gear	3
13	101923701	Shaft, Input	1
14	7336	Bearing, Intermediate Gear	1
15	101906901	Assembly, Intermediate Gear	1
16	101895401	Gear Case, Driver Side	1
17	101972201	Plug, Fill	1
18	101972101	Plug, Magnetic	1
19	101923201	Gasket, Plug	2
20	101897001	Bolt, M8 x 1.25 x 60 mm	11
21	101897601	Pin, Dowel	2
22	101923601	Housing, Differential	1
23	101923901	Gear, Differential	2
24	101903601	Plate, Thrust (idler gear)	2
25	101923001	Gear, Differential Idler	2
26	101903701	Plate, Thrust	2
27	101922101	Pin, Differential	1
28	101906201	Gear, Output	1
29	101897401	Bolt, M10 x 1.5 x 25 mm	4
30	101972401	Pin, Dowel	1
31	101895701	Assembly, Axle Tube, Driver Side	1
32	101928701	Gasket, Liquid, 8.8 oz. (250 g)	A/R

Note: Transaxle type is identified by orientation of Gear Case Bolts (Item 20). The Type G Transaxle has Gear Case Bolt heads facing toward the passenger side of the vehicle.

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REFERENCE MOTOR— SECTION 14
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TRANSAXLE, TYPE K – ELECTRIC VEHICLE

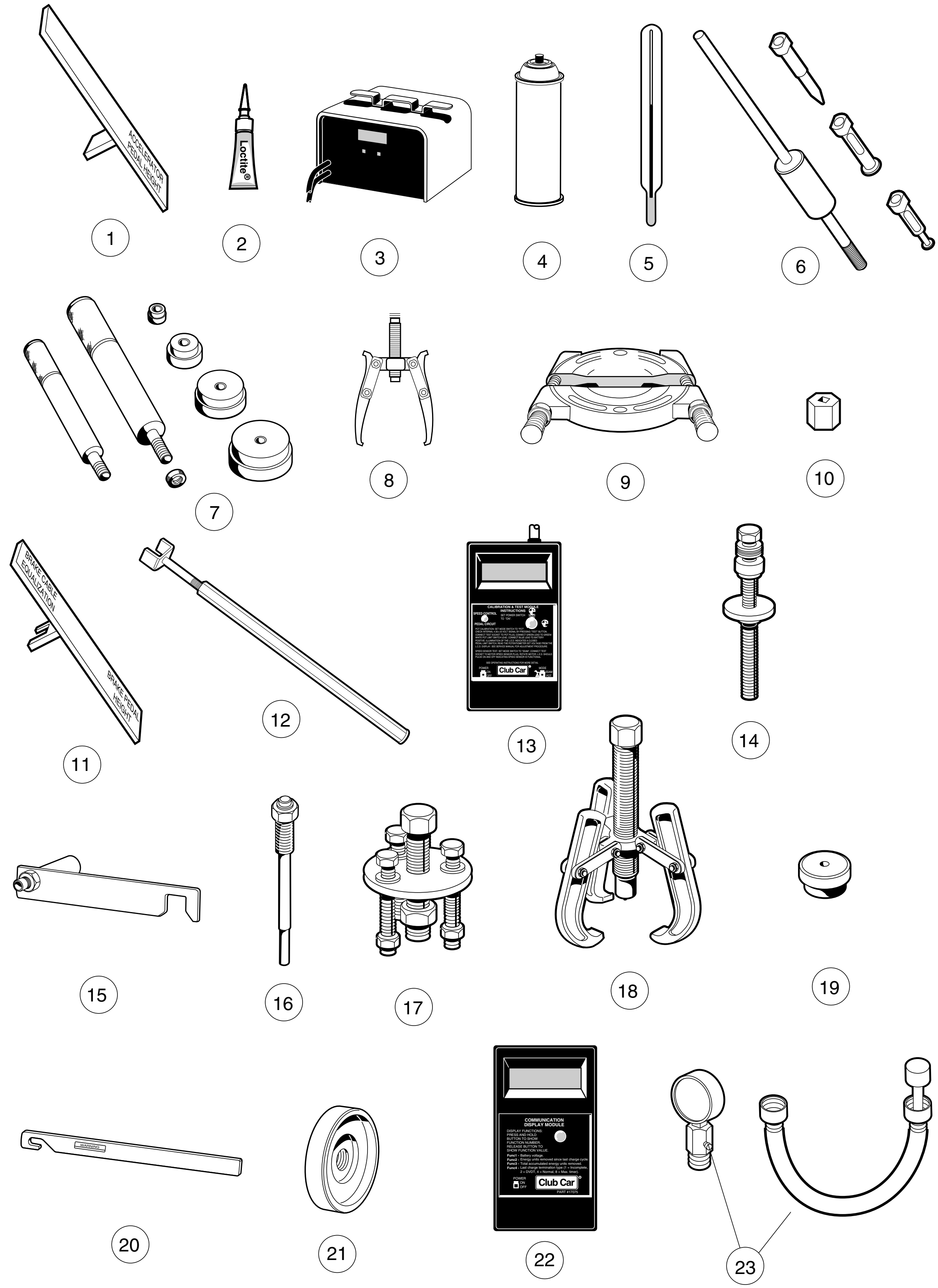
ITEM	PART NO.	DESCRIPTION	QTY
		1 2 3 4	
	N/A	Transaxle, Type K (includes items 1 - 41)	1
1	1013785	Axle Assembly, Passenger Side (includes items 3 - 7)	1
2	1013786	Axle Assembly, Driver Side (includes items 3 - 7)	1
3	1013787	Stud, Lug	4
4	1014207	Bushing, 25 mm I. D.	1
5	1011291	Bearing, Outer Axle Tube	1
6	1013792	Circlip, Type C	1
7	1016672	Ring, Retaining	1
8	1013790	Bolt, M10 x 1.5 x 30 mm	10
9	1013791	Washer, Lock	10
10	1013775	Seal, Input Shaft Oil	1
11	1013756	Gear Case, Passenger Side	1
12	1012711	Breather	1
13	1013758	Gasket, Case	1
14	7330	Bearing, Inner Axle Tube	2
15	101928701	Gasket, Liquid, 8.8 oz. (250 g)	2
16	1017704	Assembly, Axle Tube, Passenger Side	1
17	1013794	Seal, Axle Shaft Oil	2
18	7335	Bearing, Input Gear	3
19	1013764	Shaft, Input	1
20	7336	Bearing, Intermediate Gear	1
21	1013766	Gear, Intermediate, Small	1
22	1013780	Key, Sunk	1
23	1013765	Gear, Intermediate, Large	1
24	1013757	Gear Case, Driver Side	1
25	1013759	Plug, Fill, with Gasket	2
26	1013763	Bolt, M6 x 1 x 50 mm	10
27	1012710	Pin, Dowel	2
28	1013779	Bolt, M8 x 1.25 x 37 mm	8
29	1013782	Plate, Lock	4
30	1013767	Gear, Output	1
31	1013772	Pin, Differential	1
32	101910501	Kit, Differential Gear Case (includes items 33 - 36)	1
33	1013768	Gear Case, Differential (driver side)	1
34	1013773	Plate, Thrust (differential gear)	2
35	1013774	Plate, Thrust (idler gear)	2
36	1013769	Gear Case, Differential (passenger side)	1
37	1013771	Gear, Differential	2
38	1013770	Gear, Differential Idler	2
39	1013781	Shim	1
40	1017703	Assembly, Axle Tube, Driver Side	1
41	1014193	Pin, Dowel	1
		Note: Transaxle type is identified by orientation of Gear Case Bolts (item 26). The Type K Transaxle has Gear Case Bolt heads facing toward the driver side of the vehicle.	

MAINTENANCE AND SERVICE TOOLS

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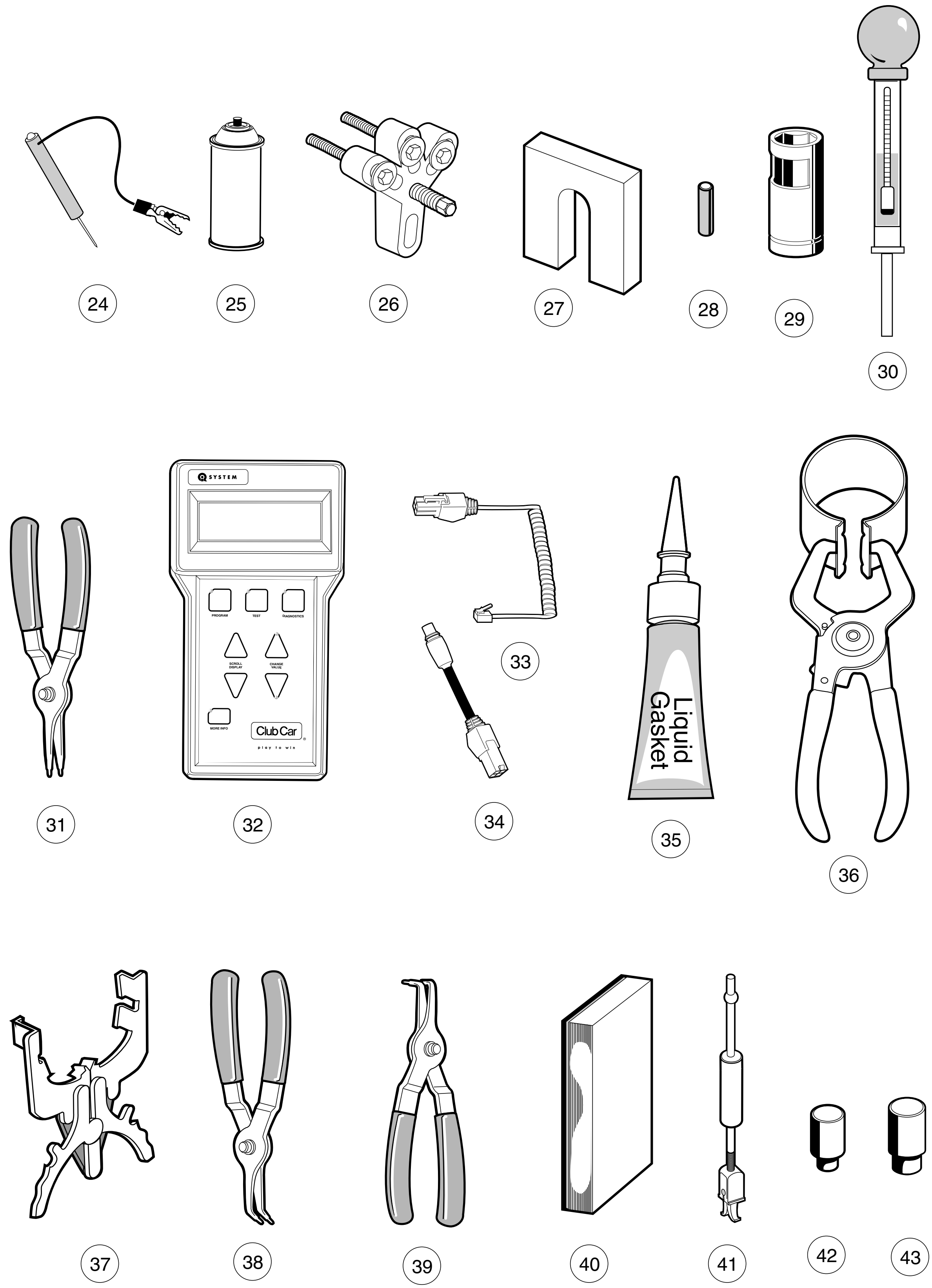
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ACCELERATOR PEDAL HEIGHT
Loctite®
BRAKE CABLE EQUALIZATION
BRAKE PEDAL HEIGHT
CALIBRATION & TEST MODULE INSTRUCTIONS
Club Car
COMMUNICATION DISPLAY MODULE
Club Car
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MAINTENANCE AND SERVICE TOOLS

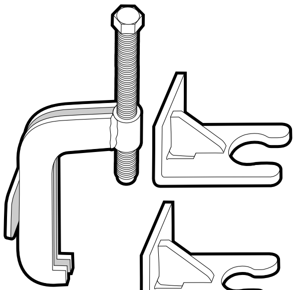
ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
		The following tool list includes all tools available from Club Car for maintenance and service procedures for gasoline and/or electric vehicles, both past and present models. Be sure to carefully examine the tool list for applicability to your vehicle before ordering.		
1	101871001	Accelerator Pedal Adjustment Tool	1	1
2	101813202	Adhesive, Guide Ring, 3-Gram Tube	1	1
3	101831901	Battery Discharge Machine, 36/48 Volt		1
4	1014305	Battery Terminal Protector Spray	1	1
5	1011767	Battery Thermometer		1
6	1016417	Bearing and Oil Seal Remover Assembly	1	1
7	1016416	Bearing Driver Set	1	1
8	1012811	Bearing Puller	1	1
9	1012812	Bearing Puller Wedge Attachment	1	1
10	1013582	Brake Adjustment Tool (used only on vehicles with manually adjusted mechanical brakes)	1	1
	102249901	Brake Pedal Adjustment Tool Kit (used for the Carryall electric industrial truck only) (includes items 11 and 12)		1
11	****	Brake Pedal Tension Tool		1
12	****	Brake Pedal Adjustment Tool		1
13	101887101	Calibration Test Module		1
14	101808401	Cam Installation Tool	1	
	1014510	Clutch Tool Kit (includes items 15 - 21)	1	
15	1014498	Clutch Alignment Tool (for pre-unitized transaxle vehicles built prior to 1997 model year)	1	
16	1014496	Drive Clutch Puller	1	
17	1014497	Drive Clutch Hub Puller	1	
18	1014508	Driven Clutch Cam Puller	1	
19	1014507	Driven Clutch Puller Plug	1	
20	1015524	Drive Clutch Holder Tool Assembly	1	
21	101809101	Press Weldment	1	
22	101831801	Communication Display Module		1
23	101641002	Compression Gauge And Adapter	1	
		Please refer to the maintenance and service manual for proper tool application.		
	****	Special order item available upon request		


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SYSTEM
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SCROLL DISPLAY
CHANGE VALUE
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Club Car
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Liquid Gasket
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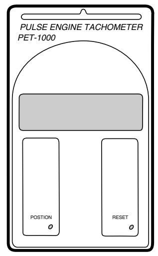
MAINTENANCE AND SERVICE TOOLS, CONTINUED

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
24	1011273	Continuity Tester	1	1
25	1012151	Dry Moly Lubricant	1	1
26	1016627	Flywheel Puller Kit	1	
27	1016418	Gear Yoke	1	1
28	101933101	Governor Shaft Installation Tool	1	
29	102169401	Hydraulic Brake Adjuster (for vehicles equipped with hydraulic brakes)	1	
30	1011478	Hydrometer	1	1
31	1013593	Internal Retaining Ring Pliers	1	1
32	102248801	IQ System Display Module (IQDM) Kit (for IQ System vehicles only) (includes items 33 and 34)		1
33	102241501	Cable, IQDM		1
34	102251501	Adaptor, Cable		1
35	101928701	Liquid Gasket (transaxle case)	1	1
36	1016414	Piston Ring Compressor Kit (FE290, FE350 and FE400)	1	
37	1016415	Piston Ring Pliers	1	
38	1012549	Retaining Ring Pliers, 45° External	1	1
39	1012560	Retaining Ring Pliers, 90° Internal	1	1
40	101823101	Safety First Card (50 per pack)	1	1
41	1012809	Seal Puller	1	1
42	1014264	Steering Column Bearing Press Tool	1	1
43	1014259	Steering Column Retaining Ring Tool	1	1

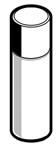
Please refer to the maintenance and service manual for proper tool application.



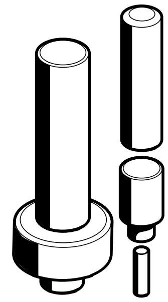
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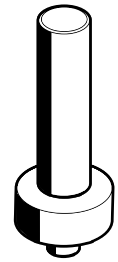
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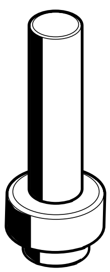
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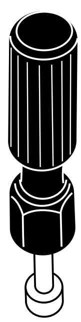
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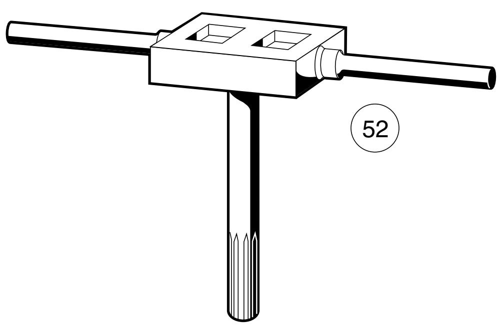
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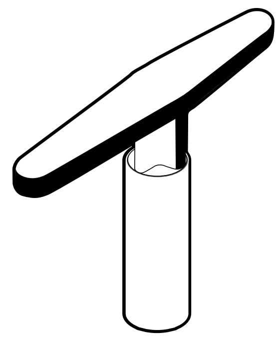


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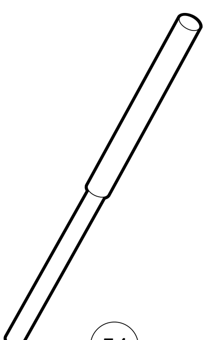


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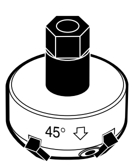
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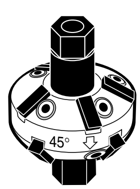
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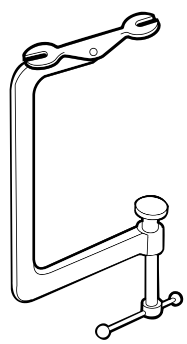
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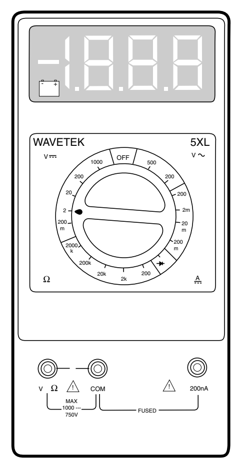
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MAINTENANCE AND SERVICE TOOLS, CONTINUED

ITEM	PART NO.	DESCRIPTION	QTY GAS	QTY ELEC
		1 2 3 4		
44	102061201	Steering Wheel Puller Tool	1	1
45	1016112	Tachometer	1	
46	101997201	Paint, Touch-Up – Beige	1	1
46	101997202	Paint, Touch-Up – White	1	1
46	101997203	Paint, Touch-Up – Red	1	1
46	101997204	Paint, Touch-Up – Gray	1	1
46	101997205	Paint, Touch-Up – Dark Gray	1	1
46	101997206	Paint, Touch-Up – Royal Blue (Pacific Blue)	1	1
46	101997207	Paint, Touch-Up – Black	1	1
46	101997209	Paint, Touch-Up – Dark Green	1	1
46	101997211	Paint, Touch-Up – Classic Blue (Navy)	1	1
46	101997212	Paint, Touch-Up – Burgundy	1	1
47	1014115	Transmission Tool Kit	1	
48	1014161	Transaxle Pinion Seal Tool	1	
49	1014162	Transaxle Axle Seal Tool	1	
50	1016413	Valve Clearance Adjuster Screw Holder (for FE290 engines only)	1	
51	101641201	Valve Guide Reamer	1	
52	101641202	Arbor	1	
53	1016551	Valve Seat Cutter T-Wrench	1	
54	1016552	Valve Seat Cutter Guide	1	
55	1016553	Valve Seat Cutter, 45° (32 mm diameter) (for FE290 engines only)	1	
56	1016554	Valve Seat Cutter, 45°/30° (35 mm diameter)	1	
57	101641101	Valve Spring Compressor	1	
58	1011480	Volt Ohm Meter	1	1
59	101611003	Tune-Up Kit, All OHV (includes air filter, spark plug, oil filter, fuel filters) (not shown)	1	

Please refer to the maintenance and service manual for proper tool application.

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Part Number and *Page*

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2. Ease of Finding Information	☐	☐	☐	☐	☐
3. Clarity of Illustrations	☐	☐	☐	☐	☐
4. Index Usability	☐	☐	☐	☐	☐
5. Troubleshooting Chart Usability	☐	☐	☐	☐	☐

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